

FIG. 1A

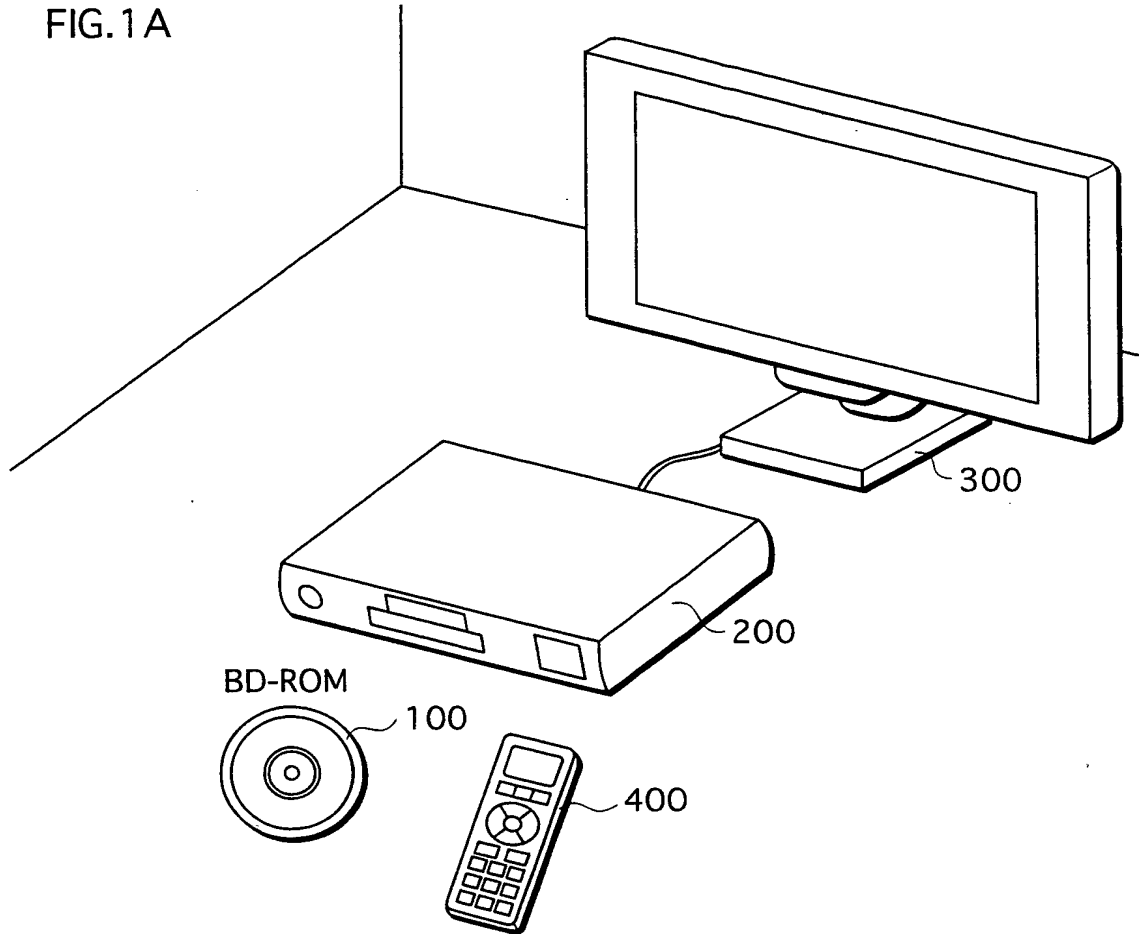


FIG. 1B

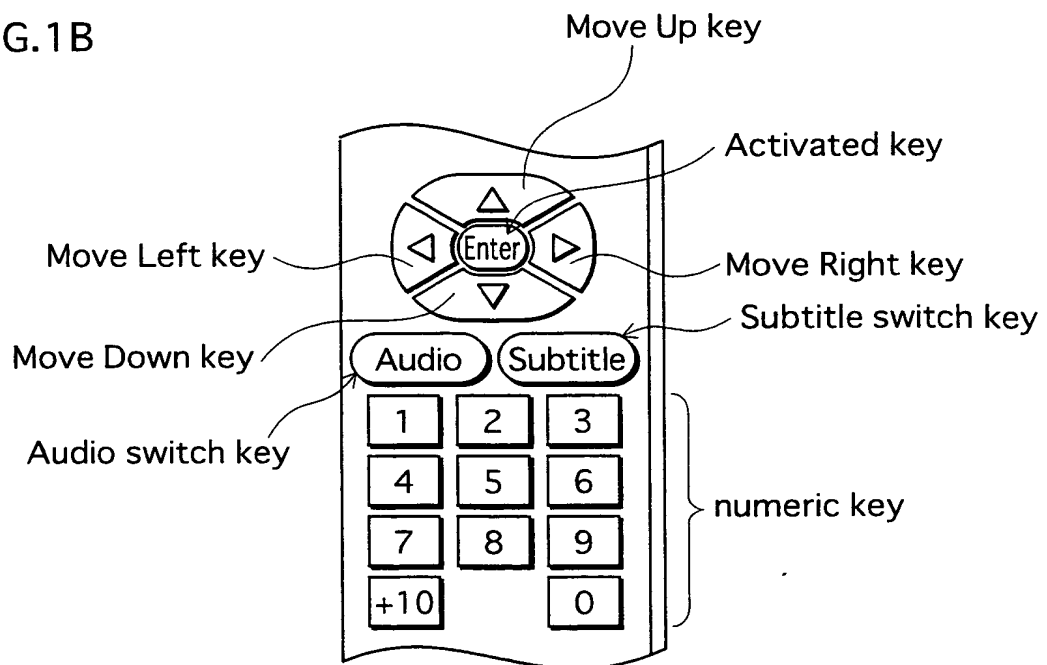


FIG.2

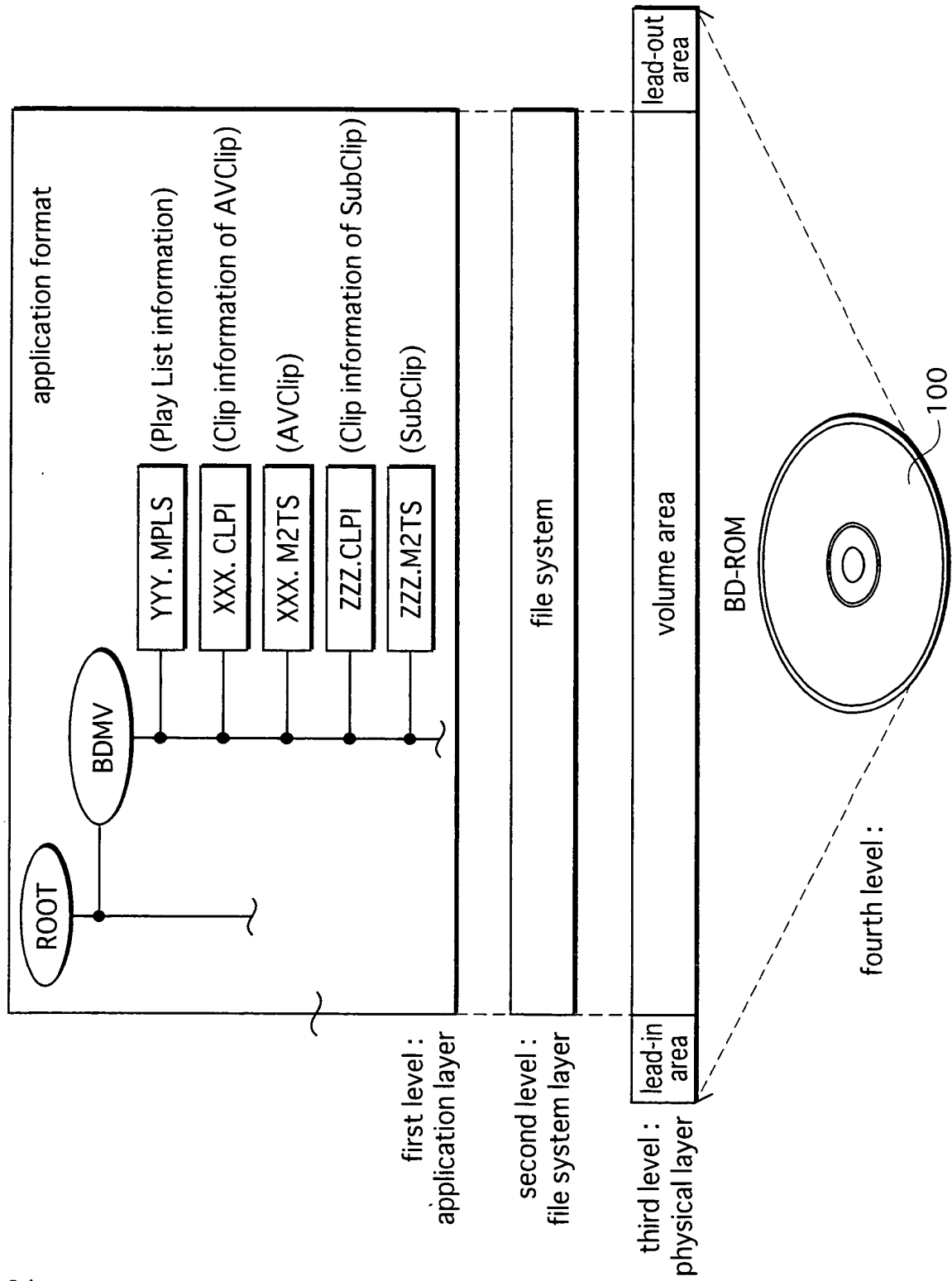


FIG.3

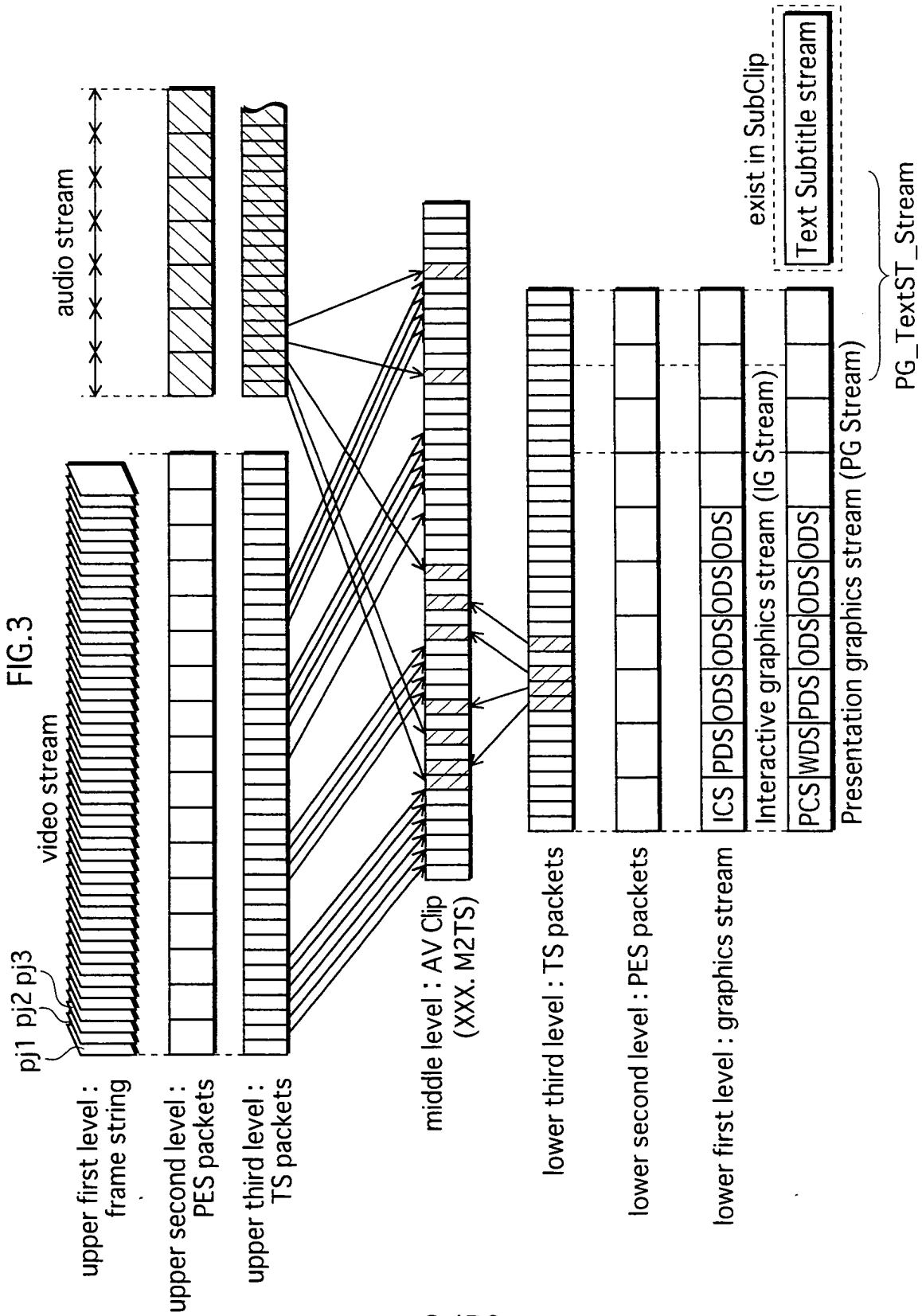


FIG.4

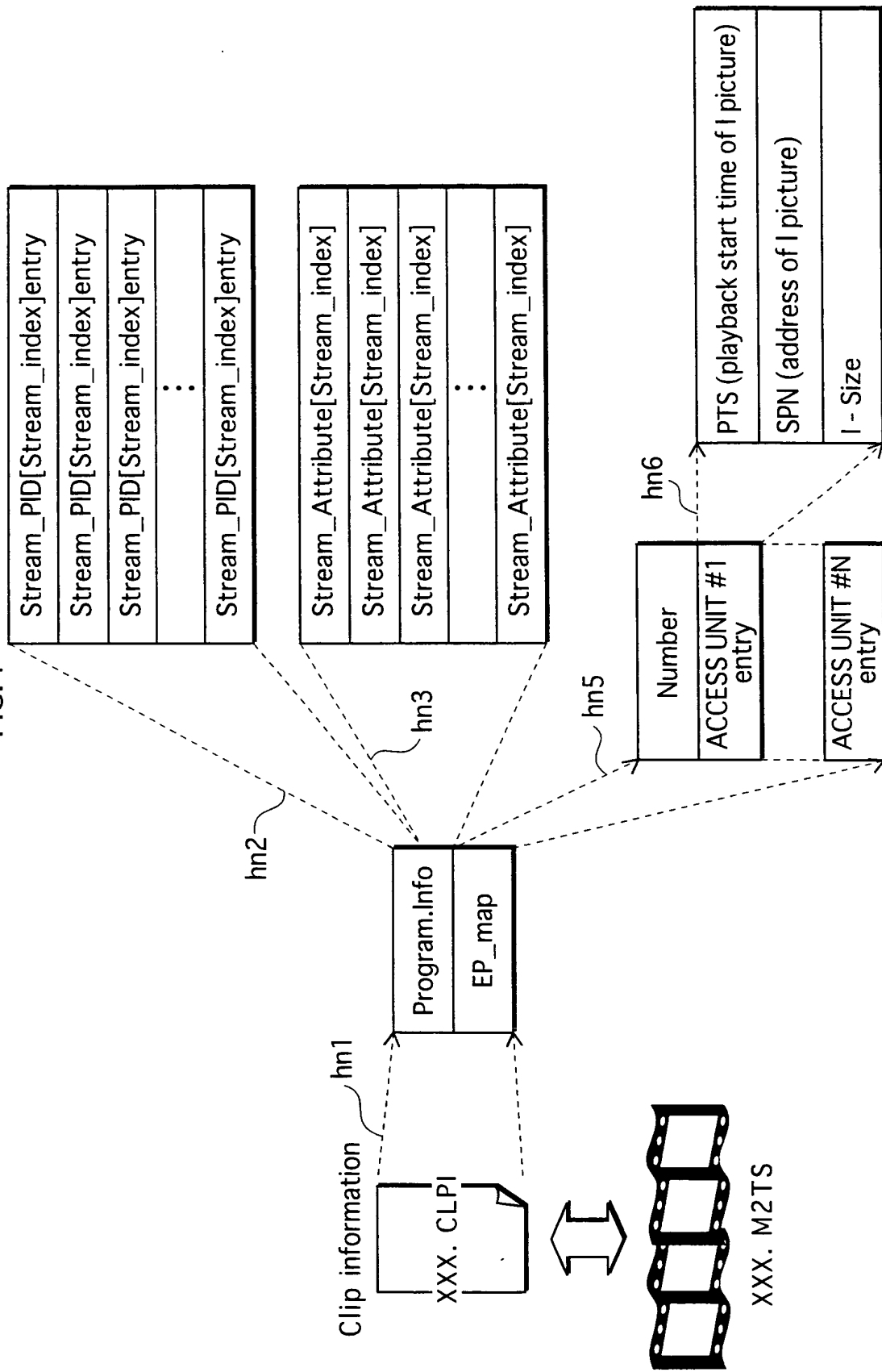


FIG. 5

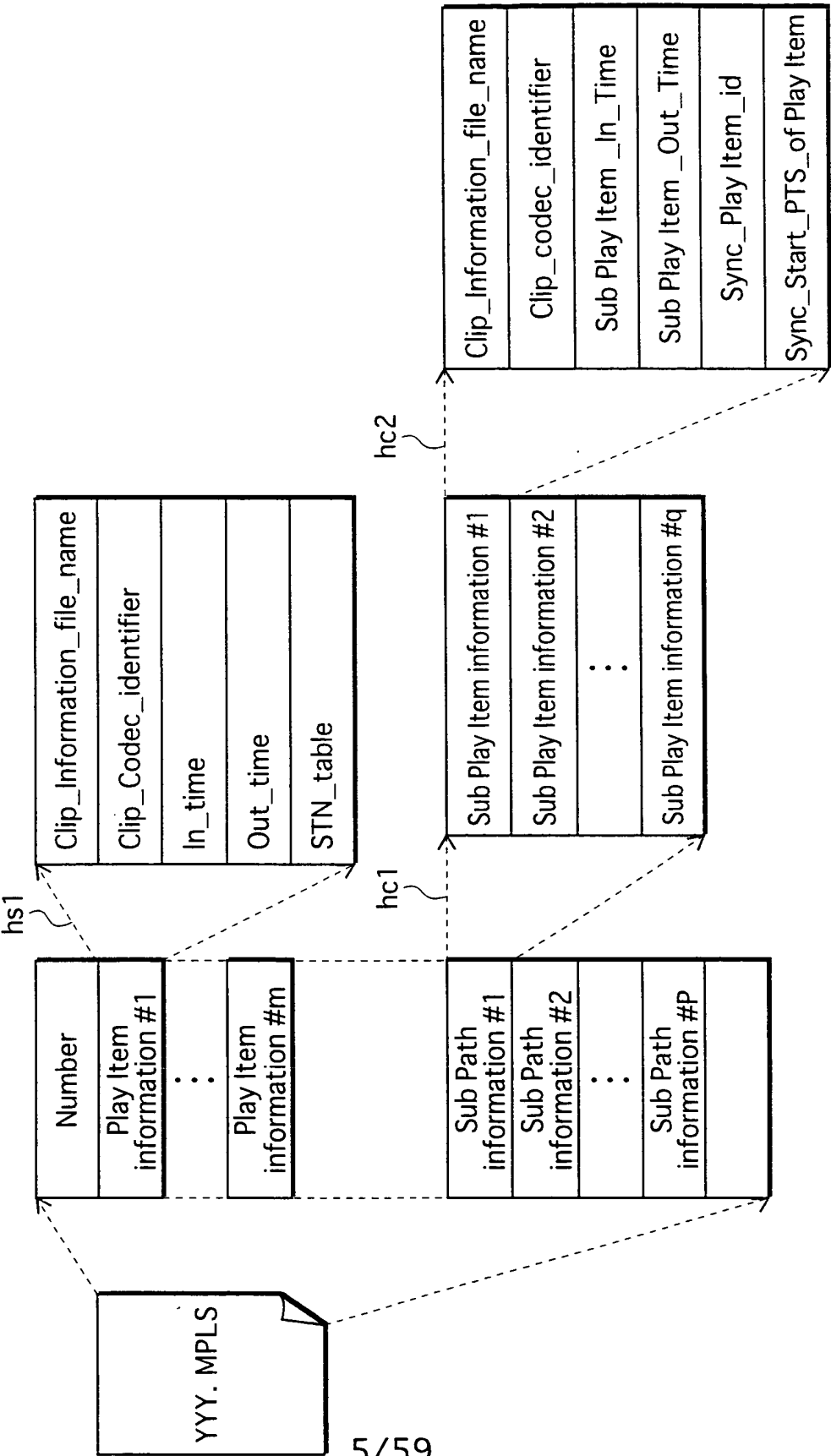


FIG.6

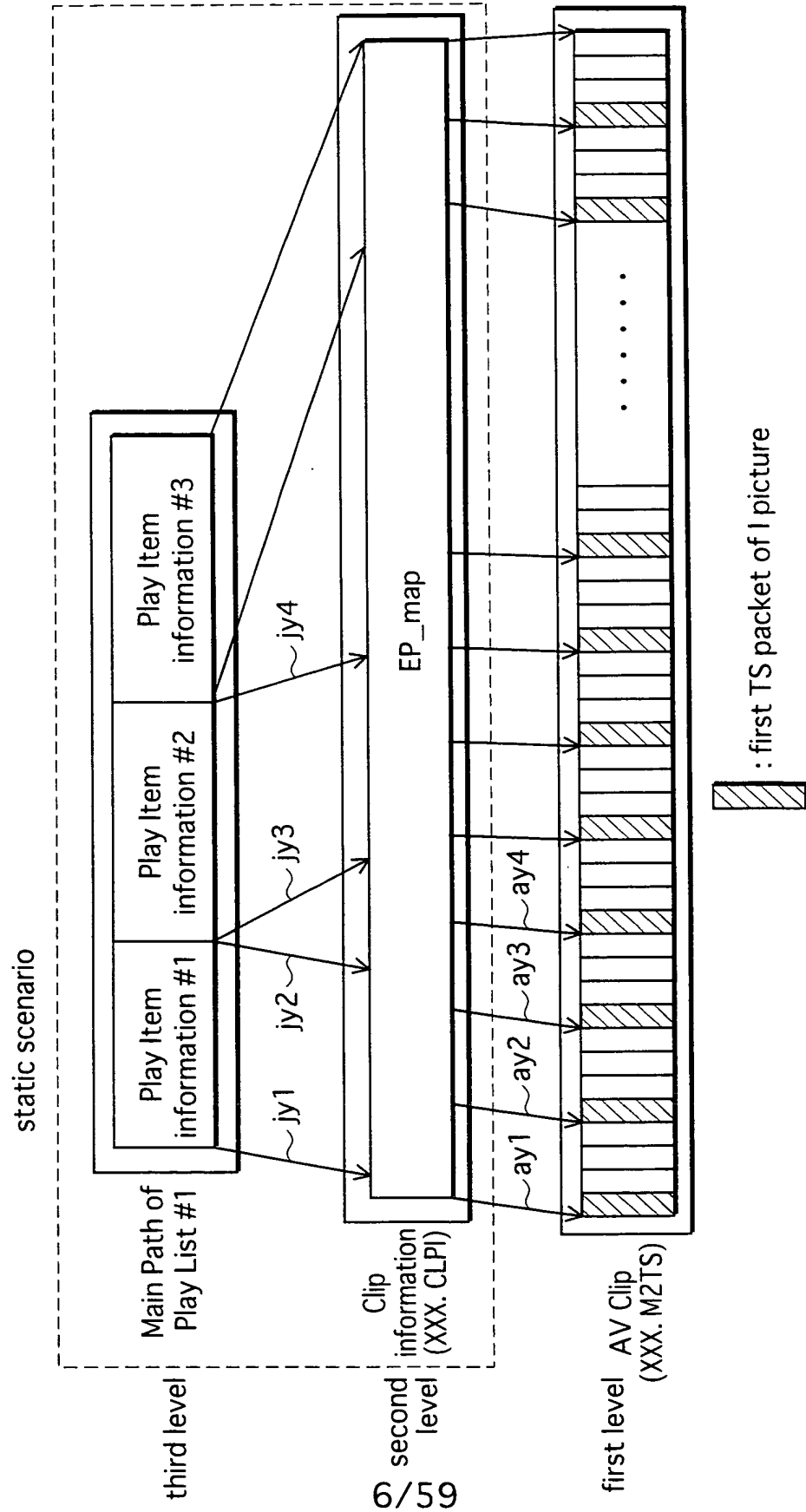


FIG. 7

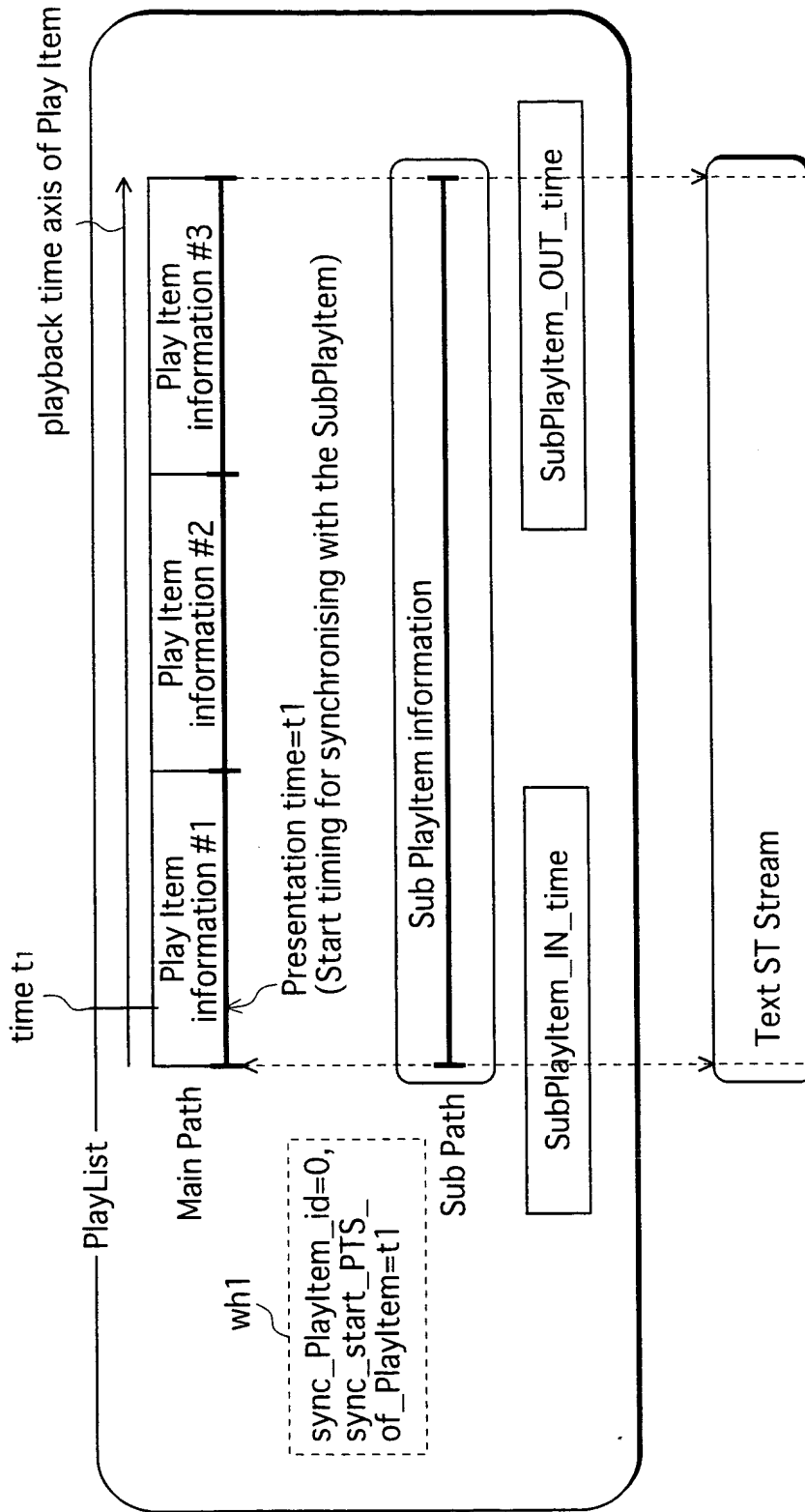


FIG.8

STN_table	
	number_of_video_stream_entries
	number_of_audio_stream_entries
	number_of_PG_textST_stream_entries
	number_of_IG_stream_entries
video_stream {	entry-attribute
audio_stream {	entry-attribute
	entry-attribute
	entry-attribute
	entry-attribute
	:
	entry-attribute
PG_TextST_stream {	entry-attribute
	entry-attribute
	entry-attribute
	entry-attribute
	:
	entry-attribute
IG_stream {	entry-attribute
	entry-attribute

FIG.9A entry-attribute of video_stream

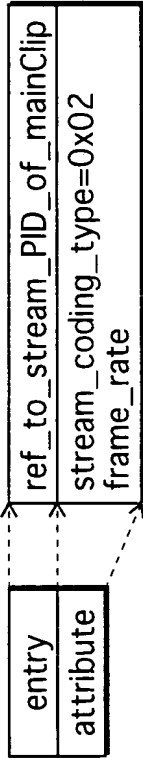
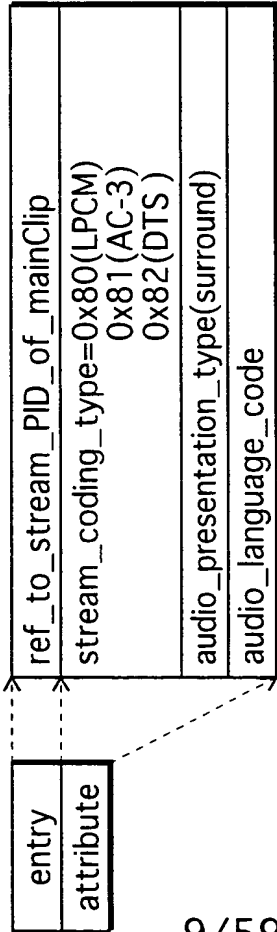


FIG.9B entry-attribute of audio_stream



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FIG.9C entry-attribute of PG stream

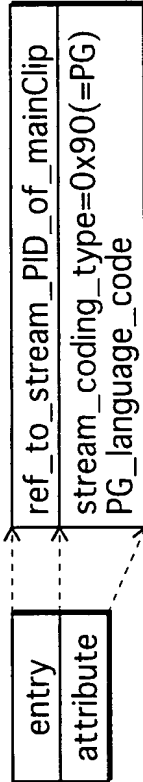
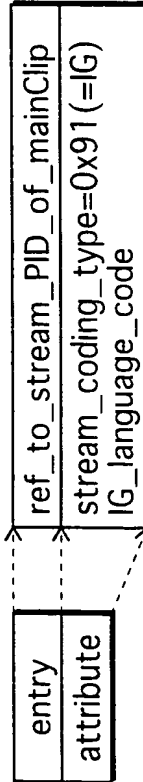


FIG.9E entry-attribute of IG_stream



entry-attribute of text ST stream

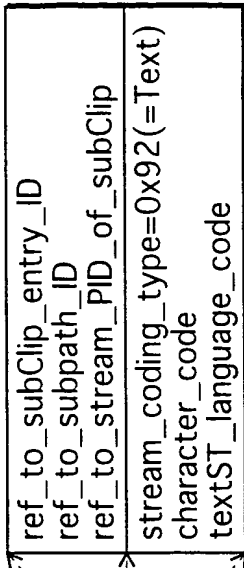


FIG.9D

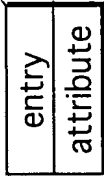
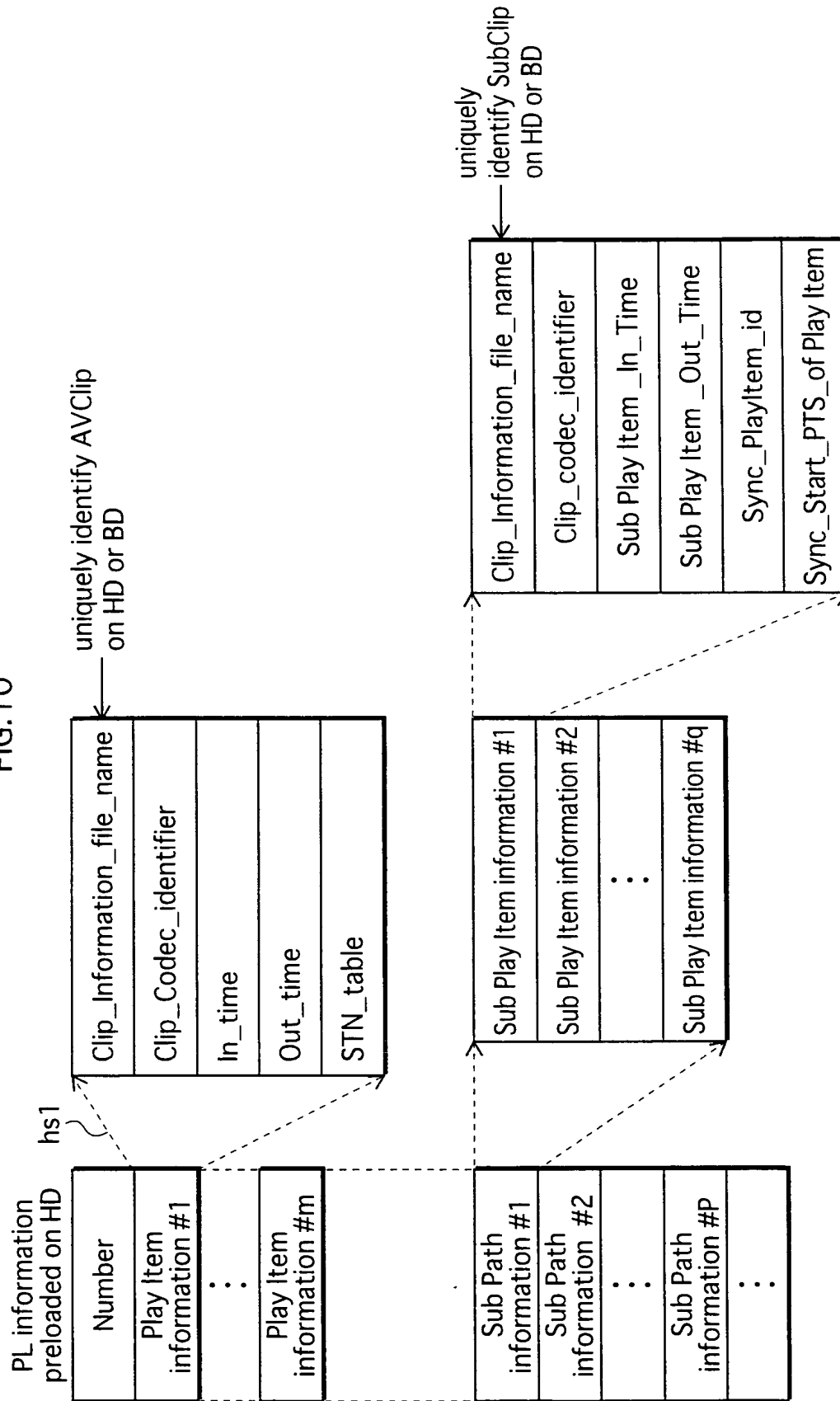
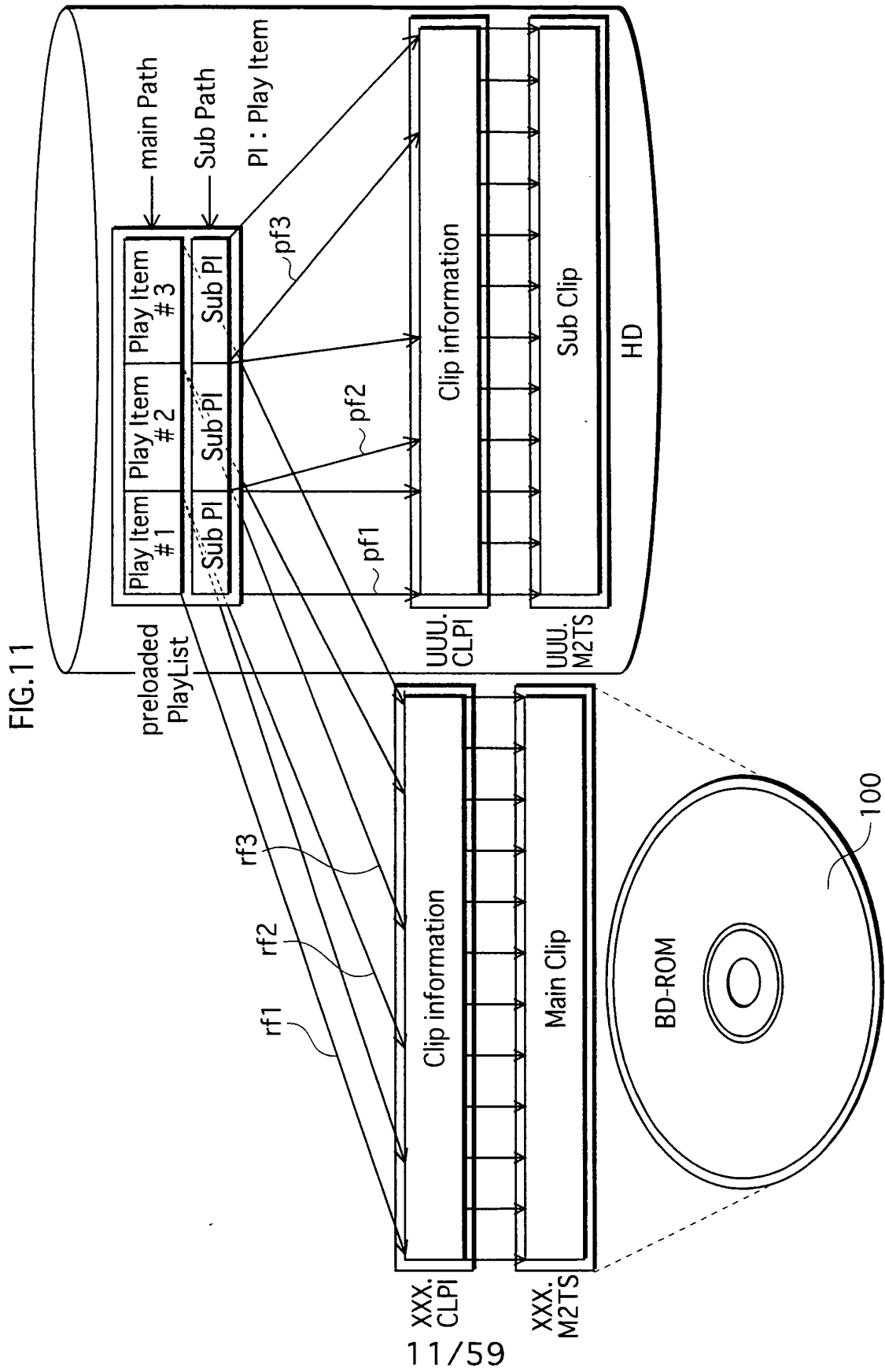


FIG.10





User Operation FIG.12

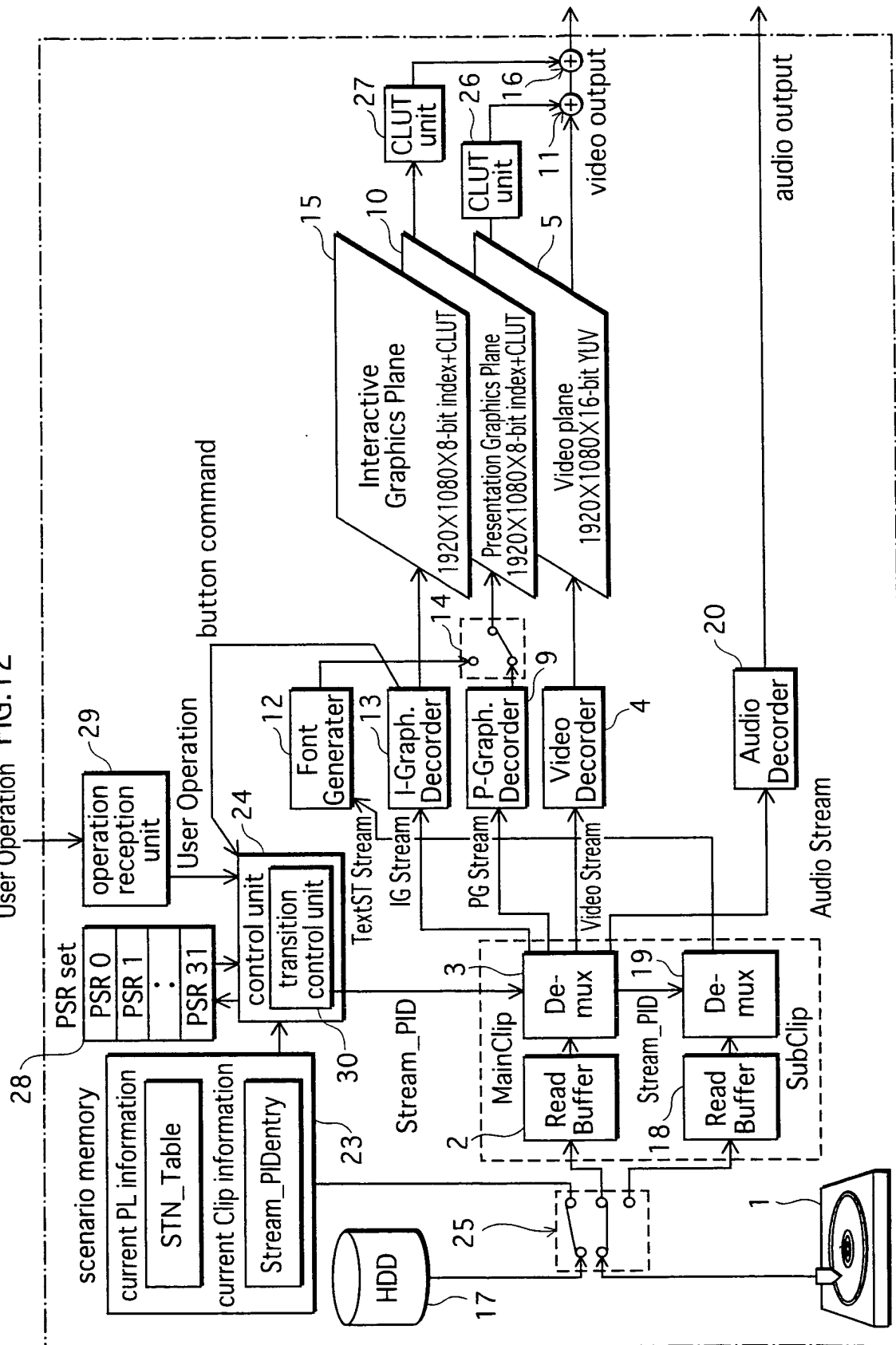


FIG.13

PSR 0	Interactive Graphics	Audio stream number	...	1 to 32 : Audio stream number 0xFF : Audio stream is not selected or no Audio stream
PSR 1	Audio	disp_flag	...	0b : Display of Presentation Graphics and Text subtitle is disabled 1b : Display of Presentation Graphics and Text subtitle is enabled
PSR 2	Presentation graphics and Text subtitle	Presentation Graphics and Text subtitle stream number	...	1 to 256 : Presentation Graphics stream and Text subtitle stream number 0xFFFF : Presentation Graphics stream or Text subtitle stream is not selected or Presentation Graphics stream and no Text subtitle stream
PSR 3	Angle			
PSR 4	Title			
PSR 5	Chapter			
PSR 6	PlayList			
PSR 14	Video Configuration	LPCM capability	...	0001 _b : Stereo capable 0010 _b : Surround capable 0000 _b : Incapable
PSR 15	Audio Configuration	AC-3 capability	...	0001 _b : Stereo capable 0010 _b : Surround capable 0000 _b : Incapable
PSR 16	Audio Language	DTS capability	...	0001 _b : Stereo capable 0010 _b : Surround capable 0000 _b : Incapable
PSR 17	Presentation Graphics and Text subtitle Language	Language Code	...	0xFFFF : Not Specified Others : Language Code
PSR 18	Menu Language			
PSR 19	-			
.	.			
PSR 29	-			
PSR 30	Text Capability	Text subtitle capability	...	00000000000000000000 _b : Text subtitle incapable Player 10000000000000000000 _b : Text subtitle capable Player
PSR 31	Player Version			

FIG.14

PSR 0	Interactive Graphics	
PSR 1	Audio	
PSR 2	Presentation graphics and Text subtitle	
PSR 3	Angle	
PSR 4	Title	
PSR 5	Chapter	
PSR 6	PlayList	
PSR 7	PlayItem	
PSR 8	Presentation Time	
PSR 9	Timer	
PSR 10	Selected Button	
PSR 11	Menu Page	
PSR 12	Selected Style	
PSR 13	Parental	

0 : Top Menu 1 to 100 : Title number	1 to 999 : Chapter number 0xFFFF : Chapter number is invalid	0 to 999 : PlayList id	0 to 255 : PlayItem id	0 to 0xFFFFFFFF : Presentation Time
---	---	------------------------	------------------------	-------------------------------------

FIG. 1 5A

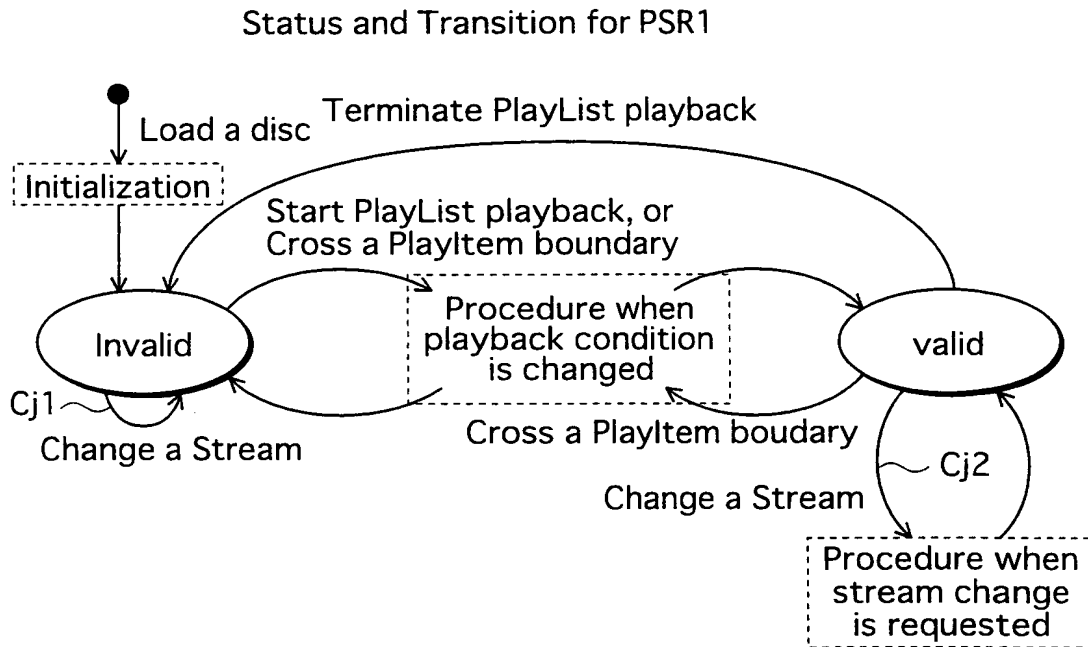


FIG. 1 5B

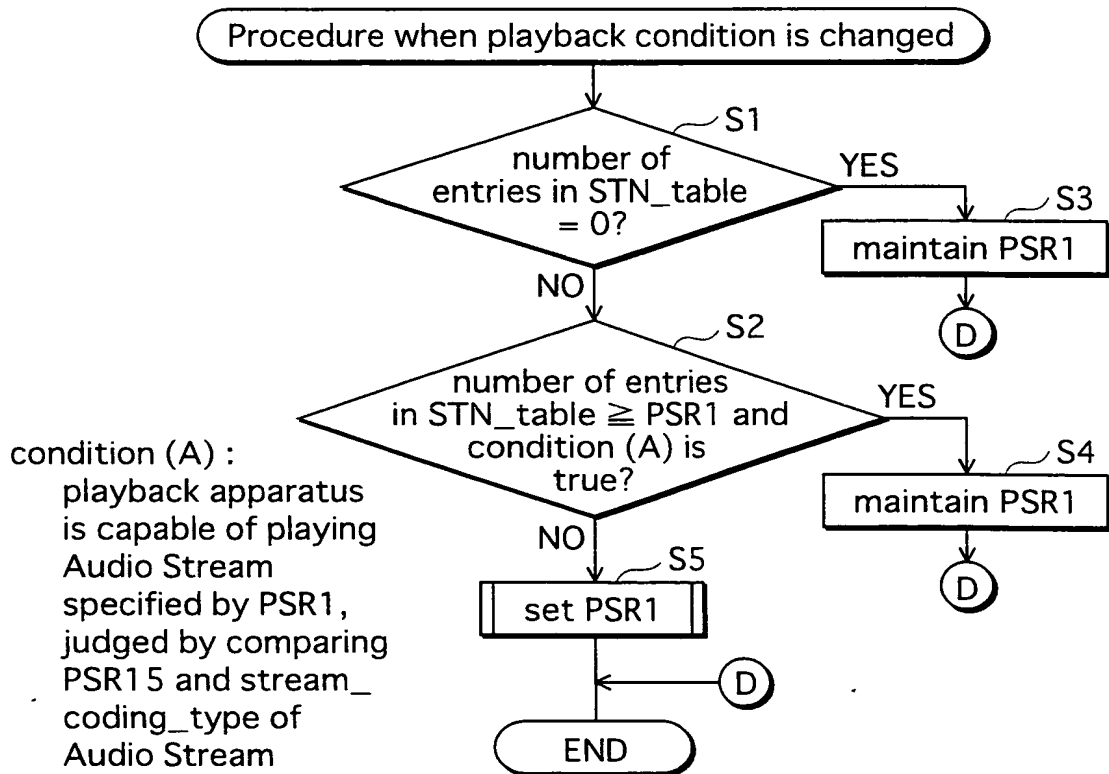


FIG. 16

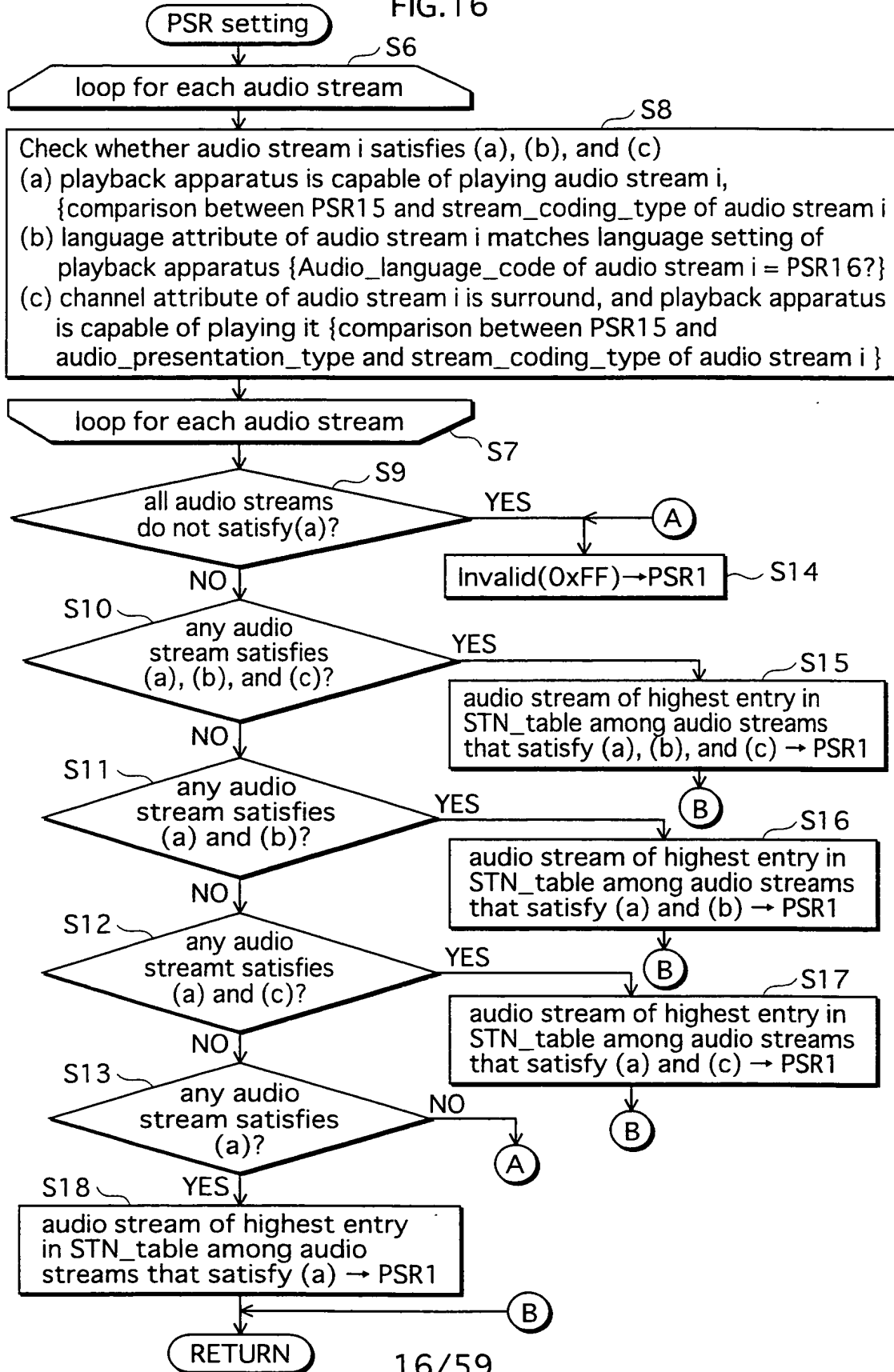


FIG.17

Presentation Capability of Player		
	stereo output	surround output
stereo	playable○	playable○
surround	playable after downmixing○	playable○

channel attribute
of Audio Stream

the only combination
that satisfies (c)

FIG.18

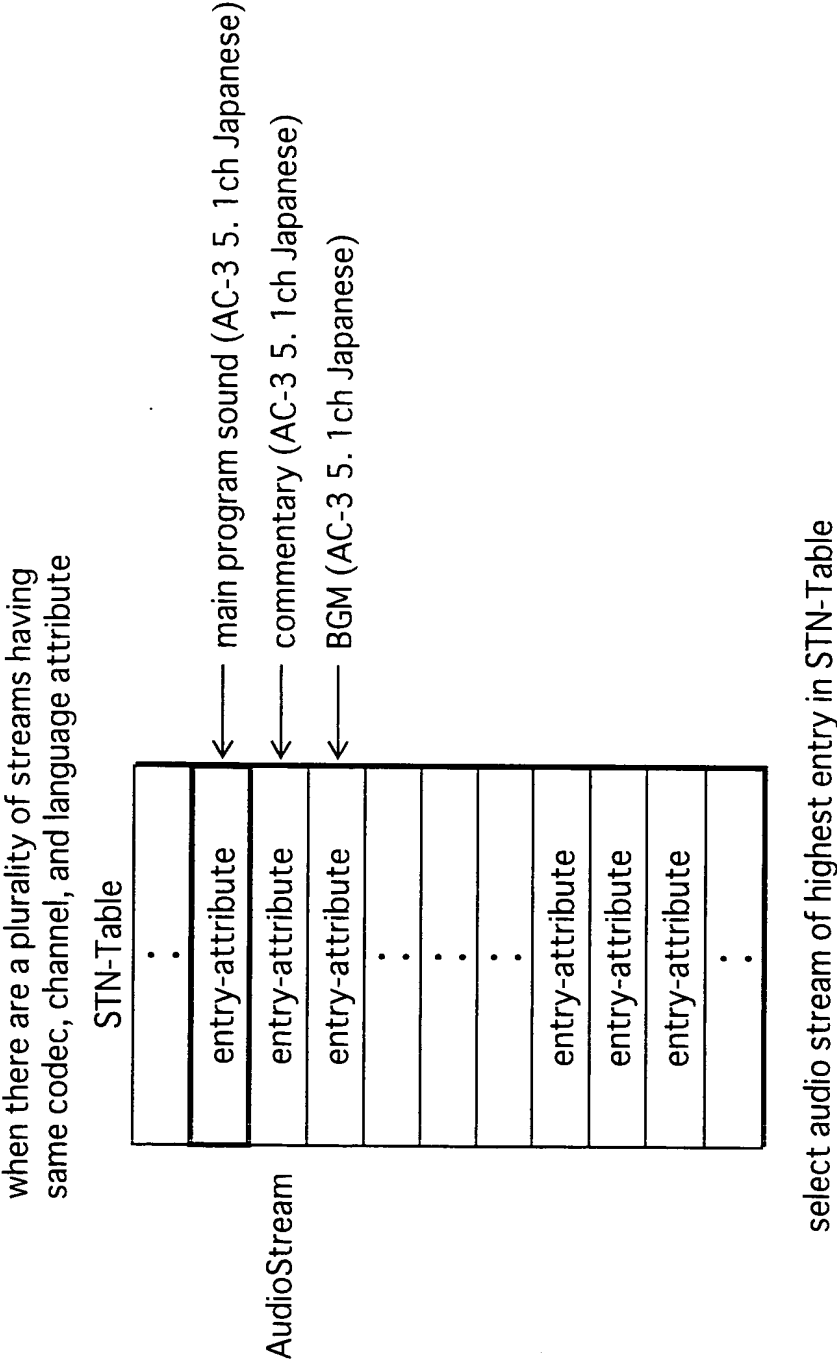


FIG.19

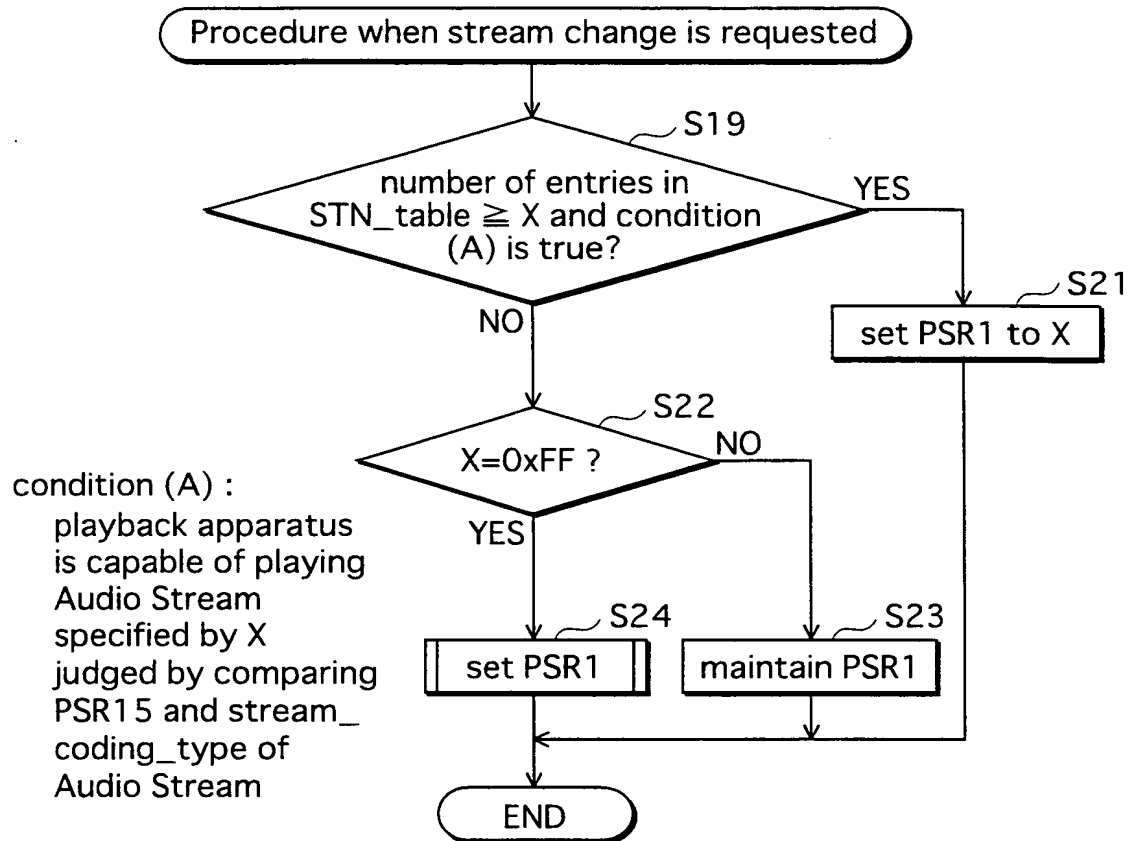


FIG.20A

Presentation Capability(PSR 15) = LPCM○ AC-3○ DTS×
Language Setting (PSR 16) = Japanese
Surroud Capability(PSR 15) = capable

FIG.20B

Audio Stream 1	AC-3	2ch	English
Audio Stream 2	AC-3	5.1ch	English
Audio Stream 3	DTS	5.1ch	English
Audio Stream 4	AC-3	2ch	Japanese
Audio Stream 5	AC-3	5.1ch	Japanese
Audio Stream 6	DTS	5.1ch	Japanese

FIG.20C

	Codec	Channel	Language	Check Presentation capability(a)	Check language (b)	Check surround Capability(c)	Priority
Audio Stream 1	AC-3	2ch	English	○	×	×	4
Audio Stream 2	AC-3	5.1ch	English	○	×	○	3
Audio Stream 3	DTS	5.1ch	English	×	—	—	—
Audio Stream 4	AC-3	2ch	Japanese	○	○	×	2
Audio Stream 5	AC-3	5.1ch	Japanese	○	○	○	1
Audio Stream 6	DTS	5.1ch	Japanese	×	—	—	—

FIG.21A

Presentation Capability(PSR 15) = LPCM ○ AC-3 ○ DTS × Language Setting (PSR 16) = Japanese Surround Capability(PSR 15) = incapable
--

FIG.21B

Audio Stream 1	AC-3	2ch	English
Audio Stream 2	AC-3	5.1ch	English
Audio Stream 3	DTS	5.1ch	English
Audio Stream 4	AC-3	2ch	Japanese
Audio Stream 5	AC-3	5.1ch	Japanese
Audio Stream 6	DTS	5.1ch	Japanese

Author prefers original stereo playback to downmixed playback

FIG.21C

	Codec	Channel	Language	Check Presentation capability(a)	Check language (b)	Check surround Capability(c)	Priority
Audio Stream 1	AC-3	2ch	English	○	×	×	2
Audio Stream 2	AC-3	5.1ch	English	○	×	×	2
Audio Stream 3	DTS	5.1ch	English	×	—	—	—
Audio Stream 4	AC-3	2ch	Japanese	○	○	×	1
Audio Stream 5	AC-3	5.1ch	Japanese	○	○	×	1
Audio Stream 6	DTS	5.1ch	Japanese	×	—	—	—

Since there are two audio streams having same priority, Audio Stream 4 having higher entry in STN_Table is selected

FIG.22A

Presentation Capability(PSR 15) = LPCM ○ AC-3 ○ DTS × Language Setting (PSR 16) = Japanese Surround Capability(PSR 15) = incapable
--

FIG.22B

Audio Stream 2	AC-3	5.1ch	English
Audio Stream 1	AC-3	2ch	English
Audio Stream 3	DTS	5.1ch	English
Audio Stream 5	AC-3	5.1ch	Japanese
Audio Stream 4	AC-3	2ch	Japanese
Audio Stream 6	DTS	5.1ch	Japanese

Author prefers downmixed playback to original stereo playback

FIG.22C

	Codec	Channel	Language	Check Presentation capability(a)	Check language (b)	Check surround Capability(c)	Priority
Audio Stream 2	AC-3	5.1ch	English	○	×	×	2
Audio Stream 1	AC-3	2ch	English	○	×	×	2
Audio Stream 3	DTS	5.1ch	English	×	—	—	—
Audio Stream 5	AC-3	5.1ch	Japanese	○	○	×	1
Audio Stream 4	AC-3	2ch	Japanese	○	○	×	1
Audio Stream 6	DTS	5.1ch	Japanese	×	—	—	—

Since there are two audio streams having same priority, Audio Stream 5 having higher entry in STN_ Table is selected

FIG.23A

Status and Transition for PSR2

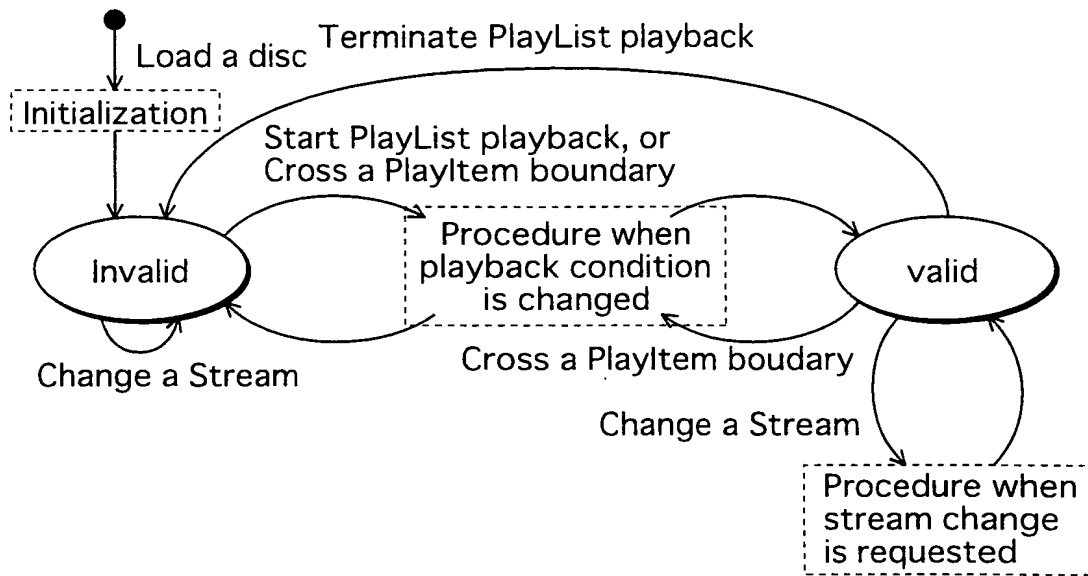


FIG.23B

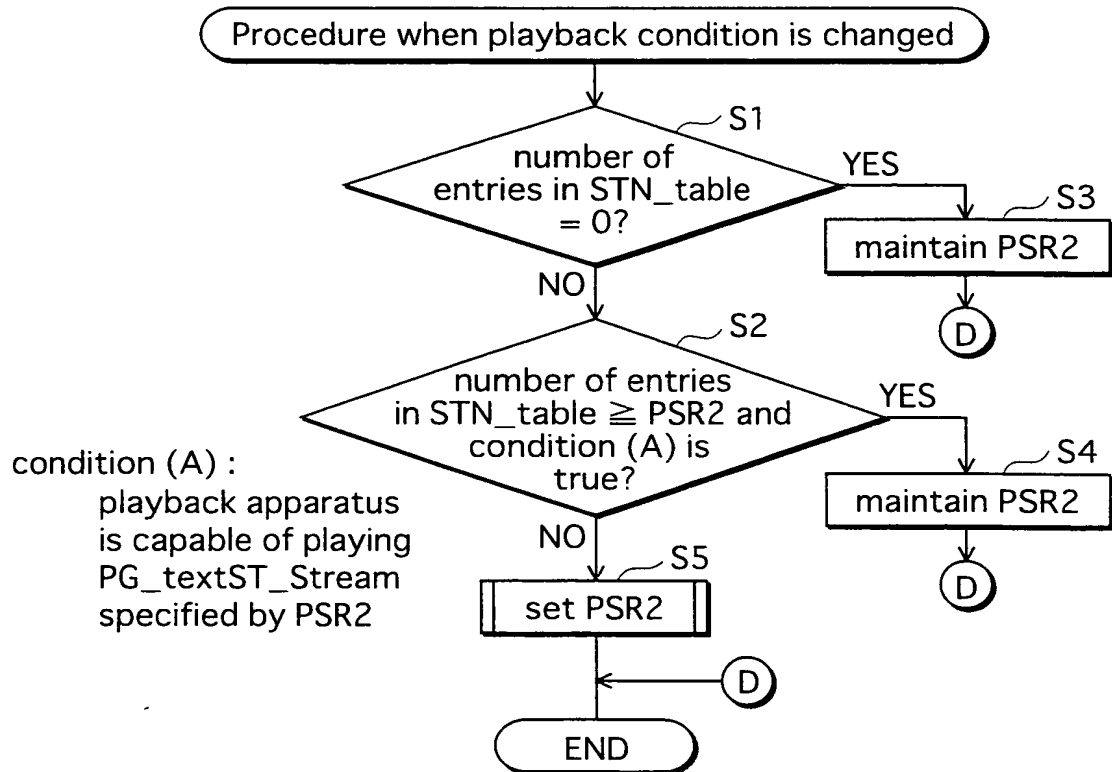


FIG.24

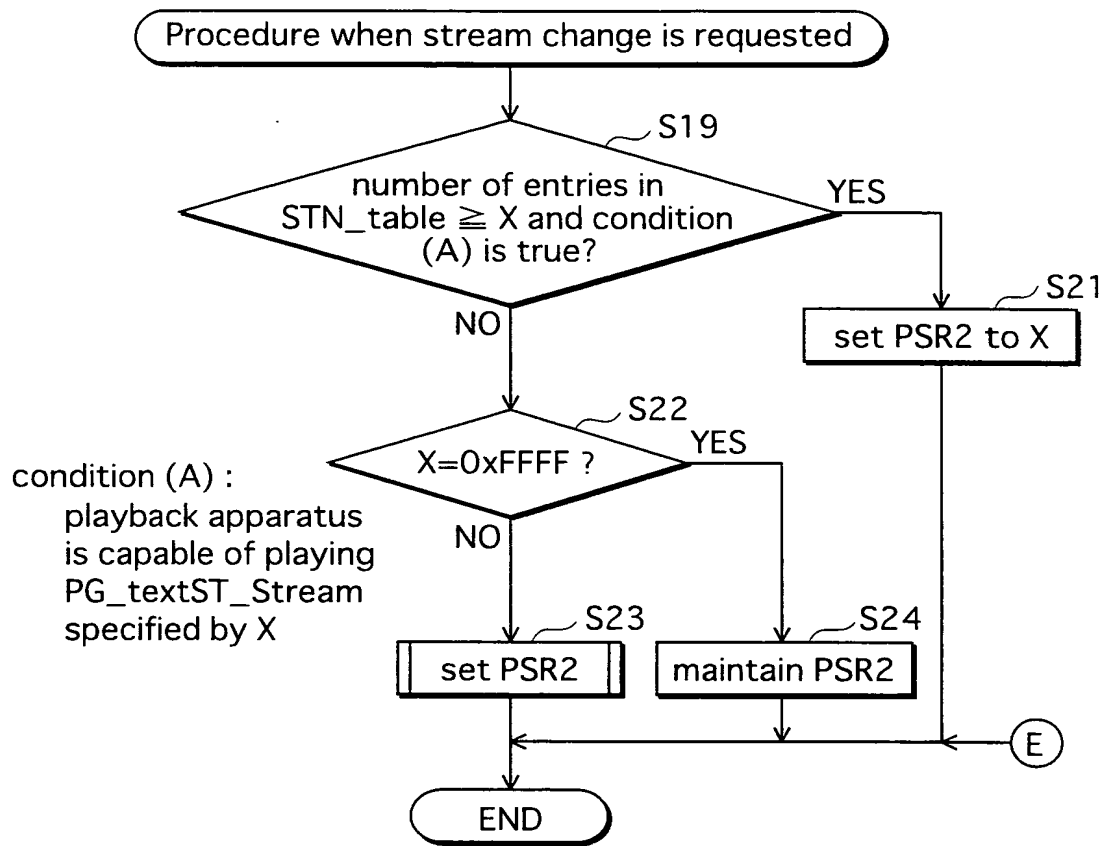


FIG.25

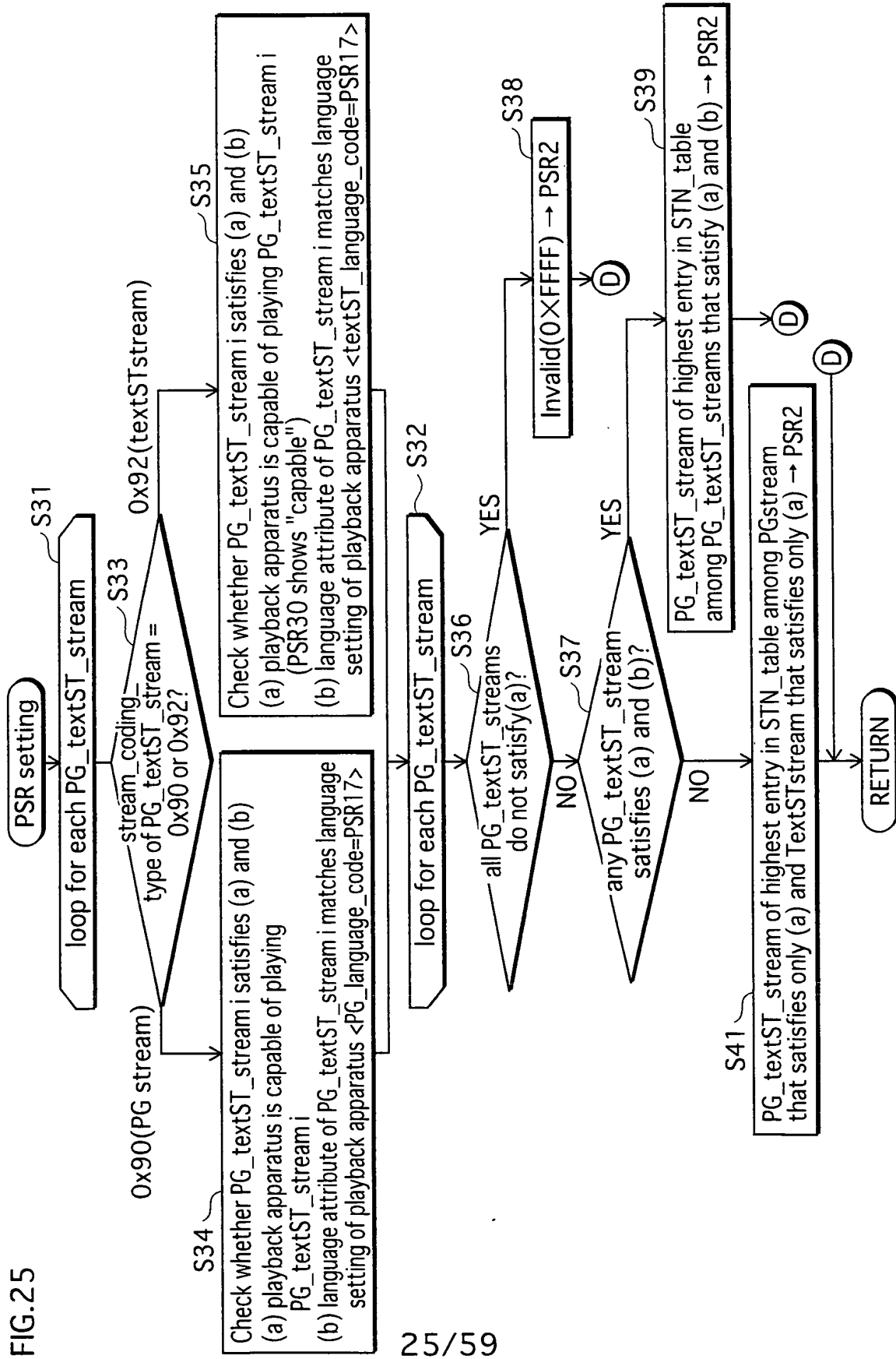


FIG.26A

Presentation Capability(PSR 15) = PGstream ○ TextSTStream × Language Setting (PSR 16) = Japanese

FIG.26B

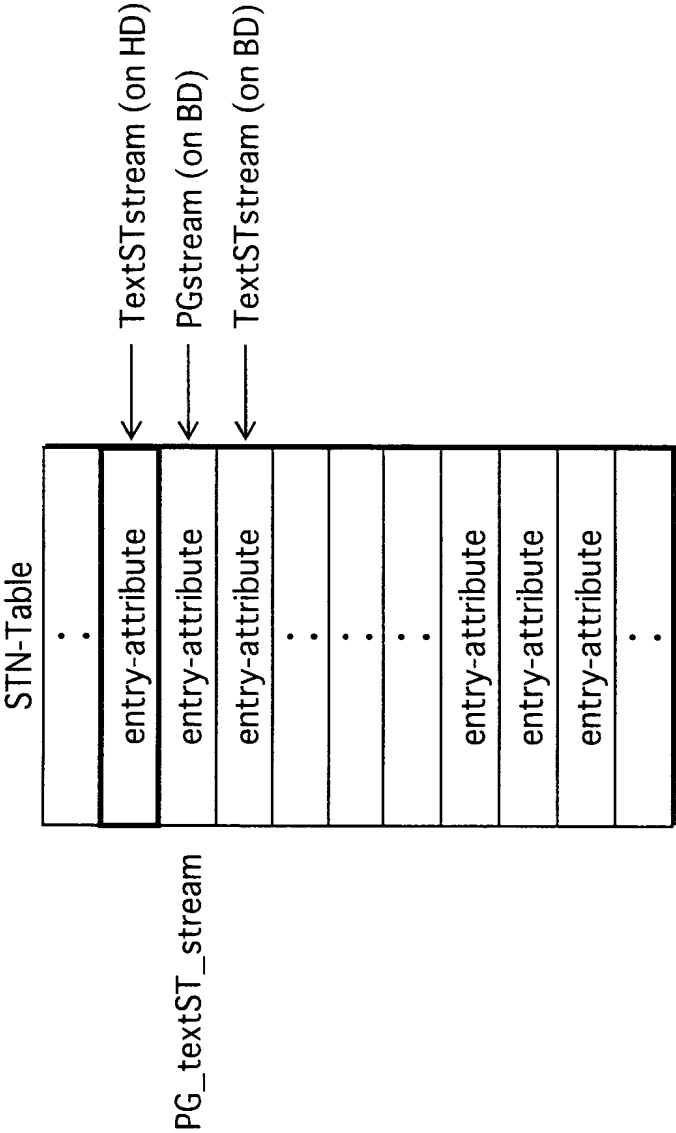
PG_TextST_stream1	TextSTstream	English
PG_TextST_stream2	PGstream	English
PG_TextST_stream3	TextSTstream	Japanese
PG_TextST_stream4	PGstream	Japanese

FIG.26C

	Coding_Type	Language	Check Presentation capability(a)	Check language (b)	Priority
PG_TextST_stream1	TextSTstream	English	×	—	—
PG_TextST_stream2	PGstream	English	○	×	2
PG_TextST_stream3	TextSTstream	Japanese	×	—	—
PG_TextST_stream4	PGstream	Japanese	○	○	1

FIG.27

when there are a plurality of PG_textST_streams that satisfy(a) and (b)



select PG_textST_stream having highest entry in STN_Table

FIG.28

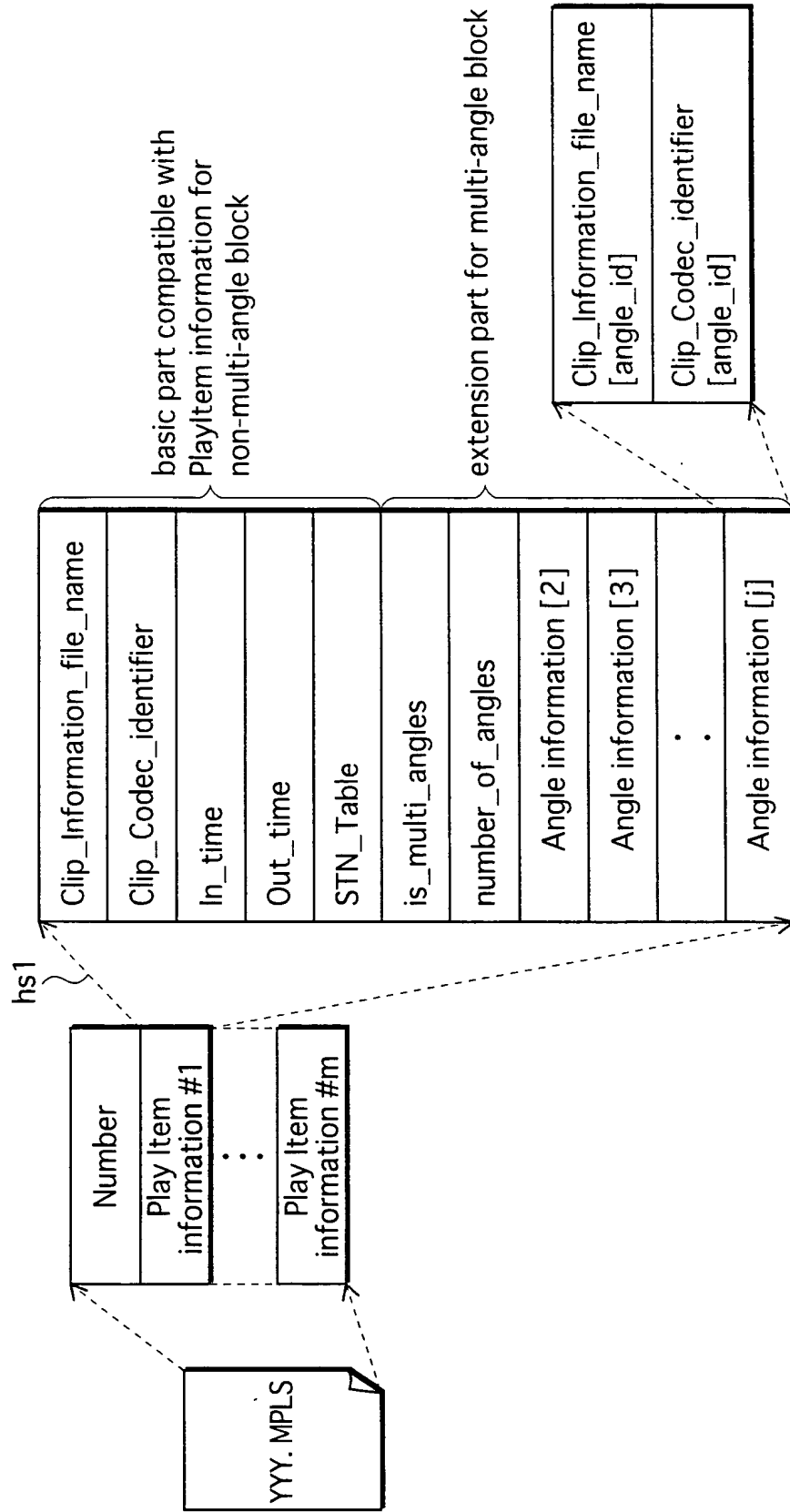


FIG.29

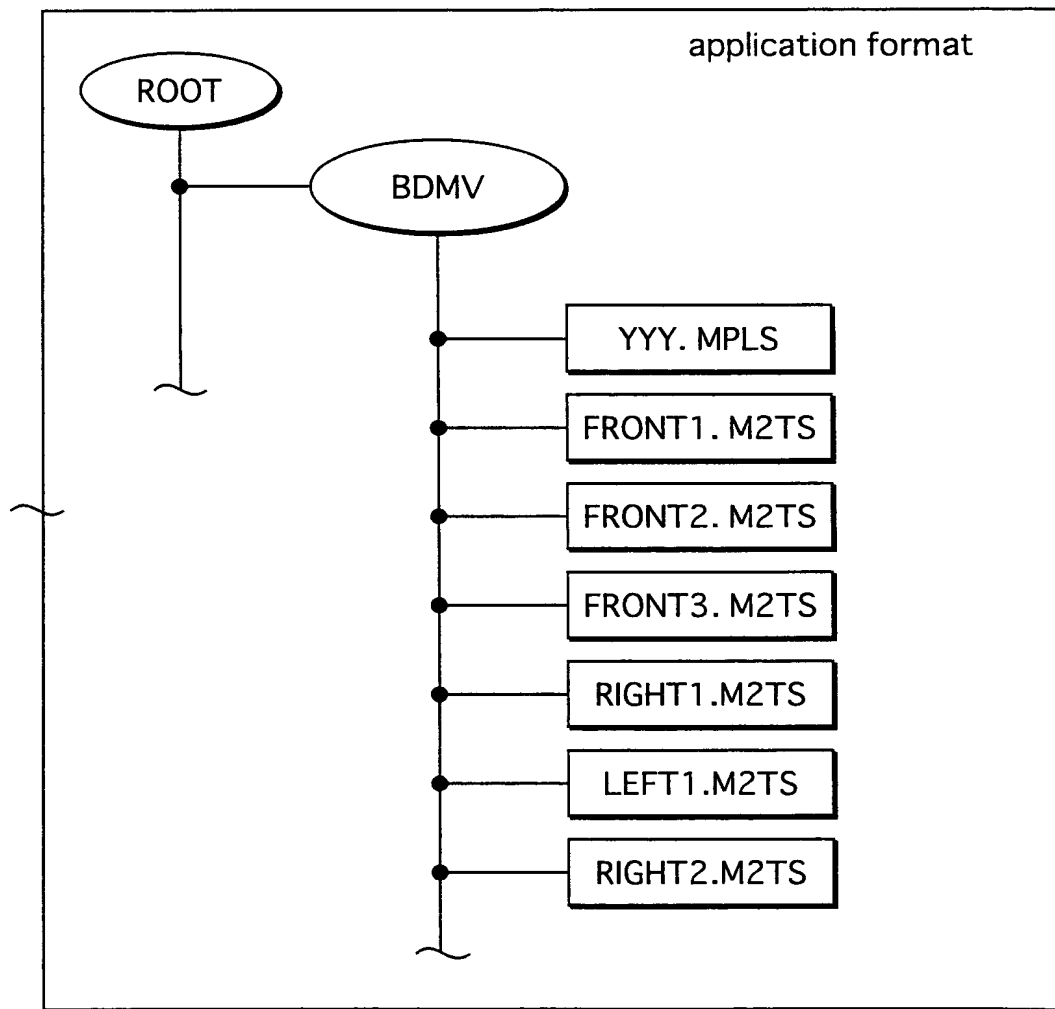


FIG. 30A

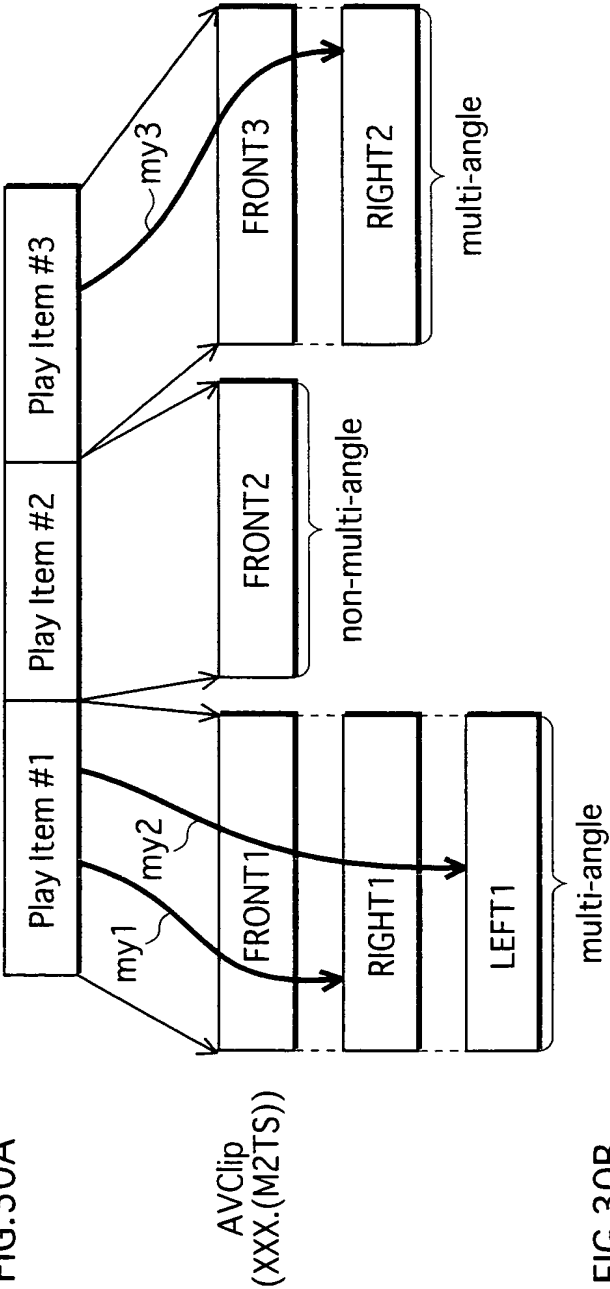


FIG. 30B

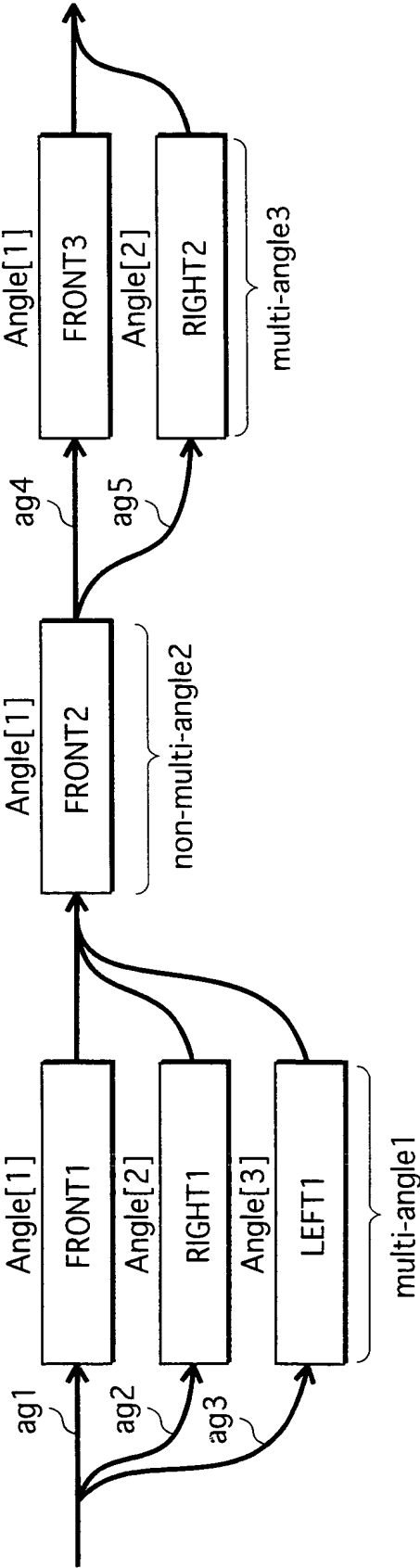


FIG.31

PSR 0	Interactive Graphics
PSR 1	Audio
PSR 2	Presentation graphics and Text subtitle
PSR 3	Angle
PSR 4	Title
PSR 5	Chapter
PSR 6	PlayList
PSR 7	PlayItem
PSR 8	Presentation Time
PSR 9	Timer
PSR 10	Selected Button
PSR 11	Menu Page
PSR 12	Selected Style
PSR 13	Parental

1 to 9 : Angle number

FIG.32A Status and Transition for PSR3

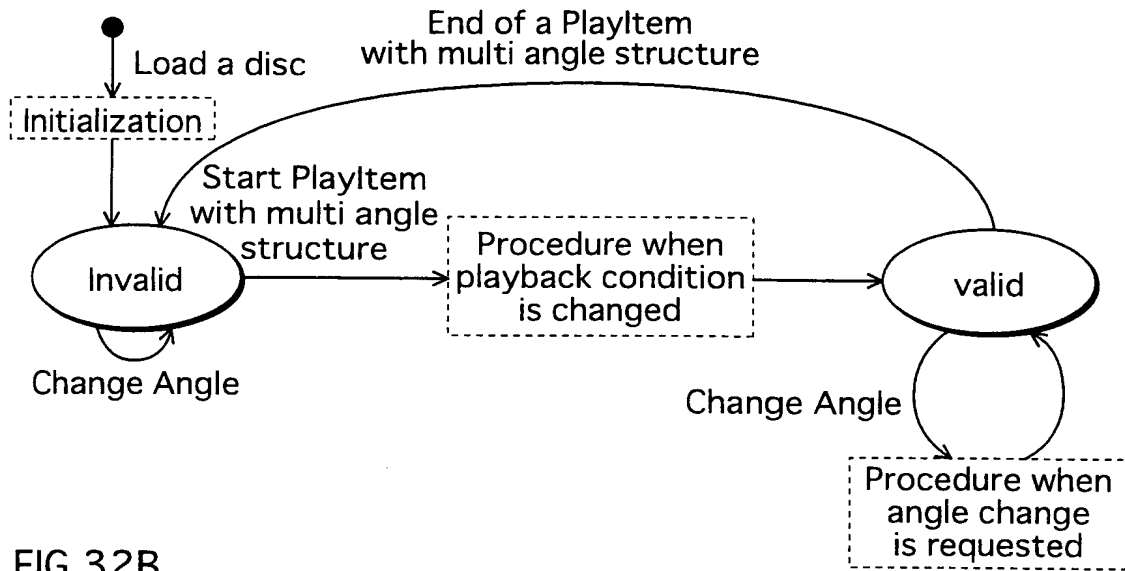


FIG.32B

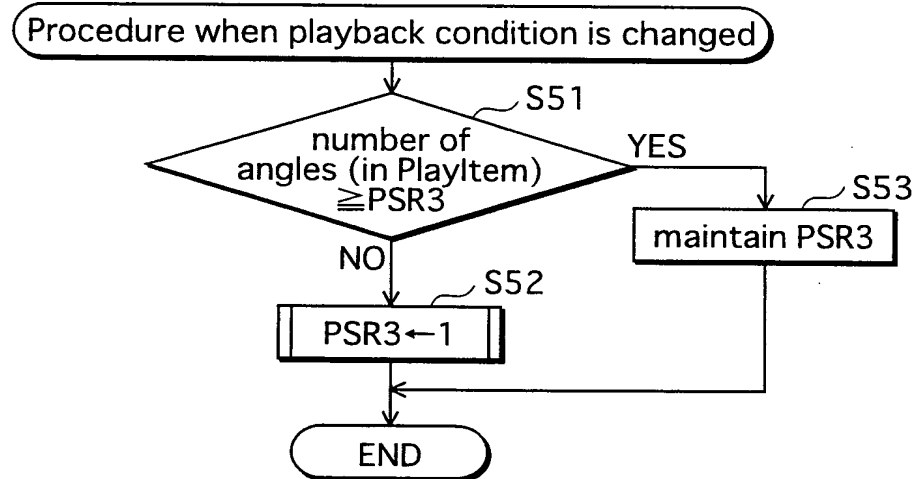
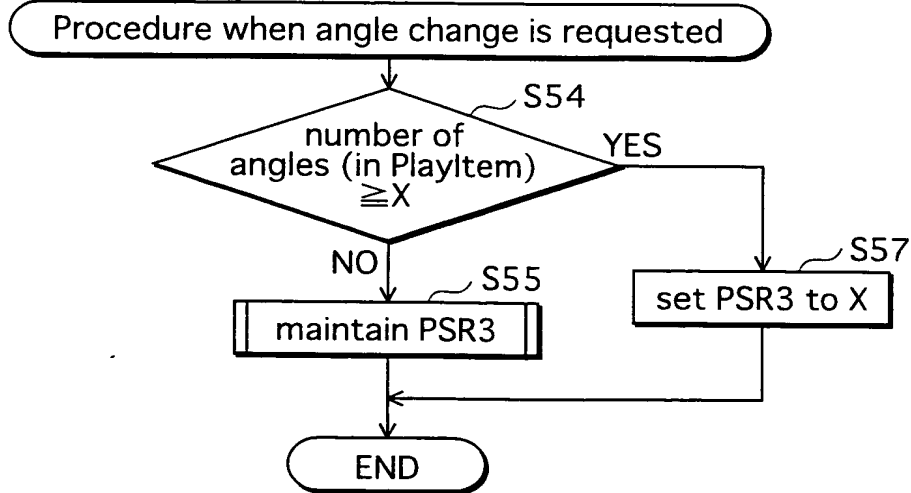


FIG.32C



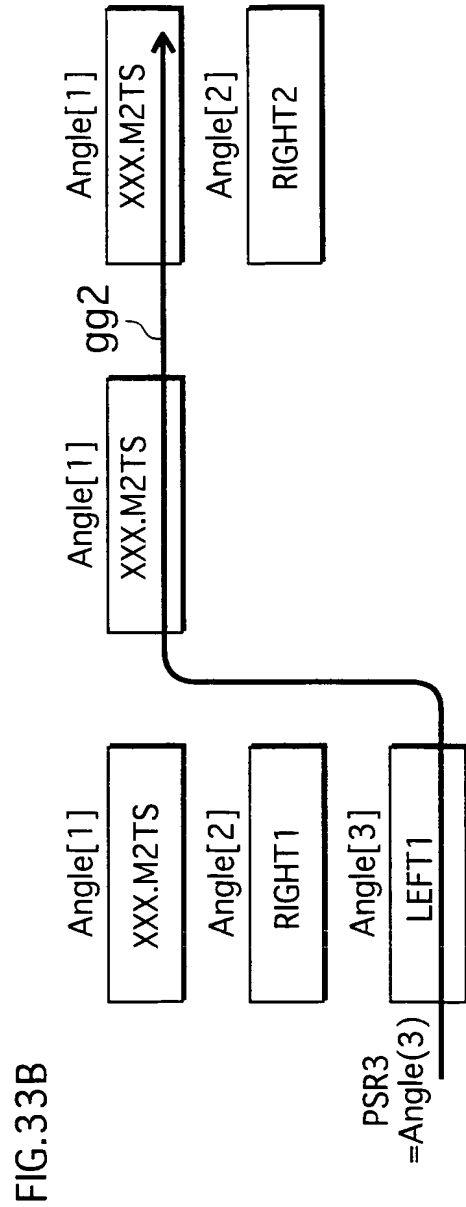
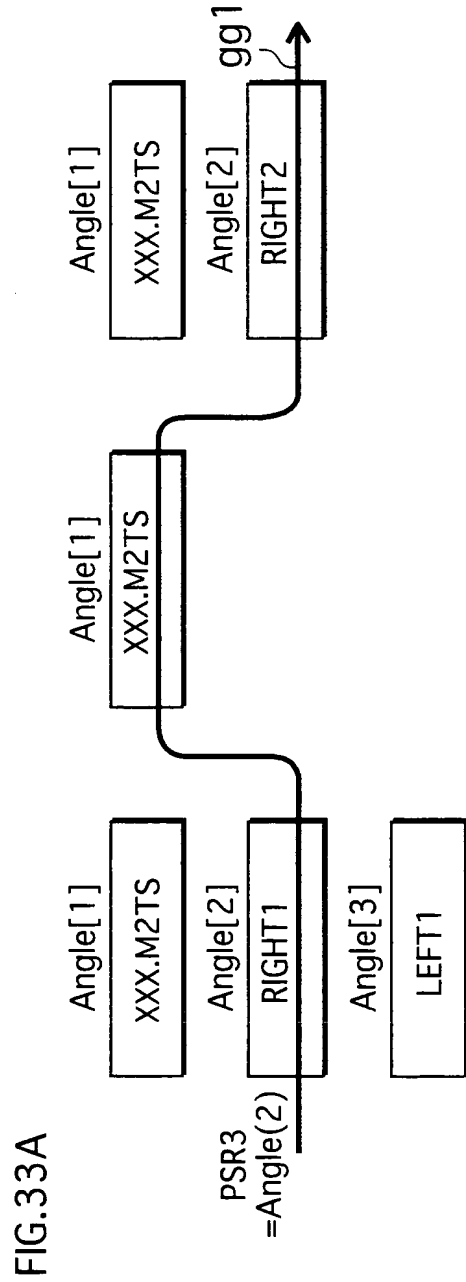


FIG.34

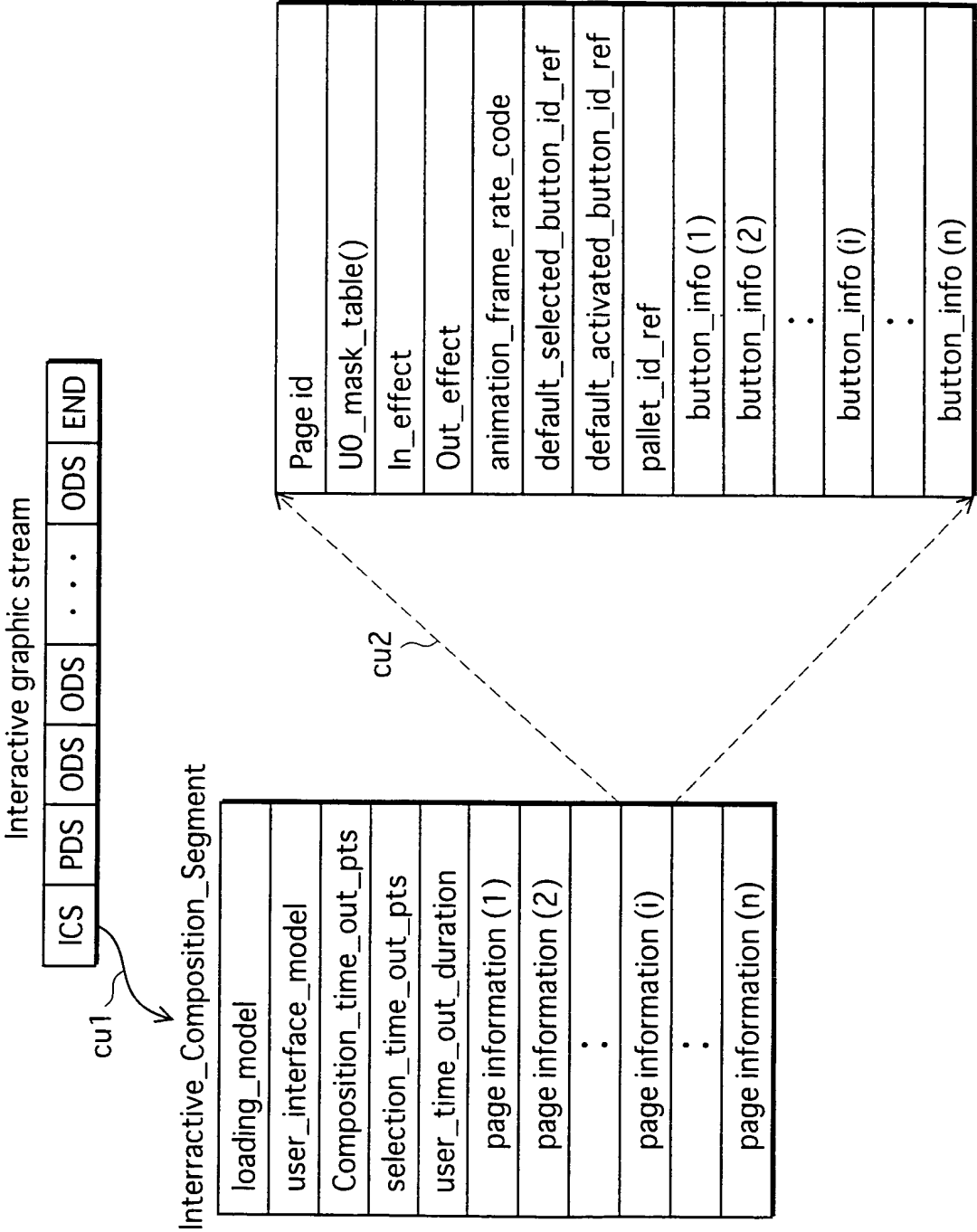


FIG.35

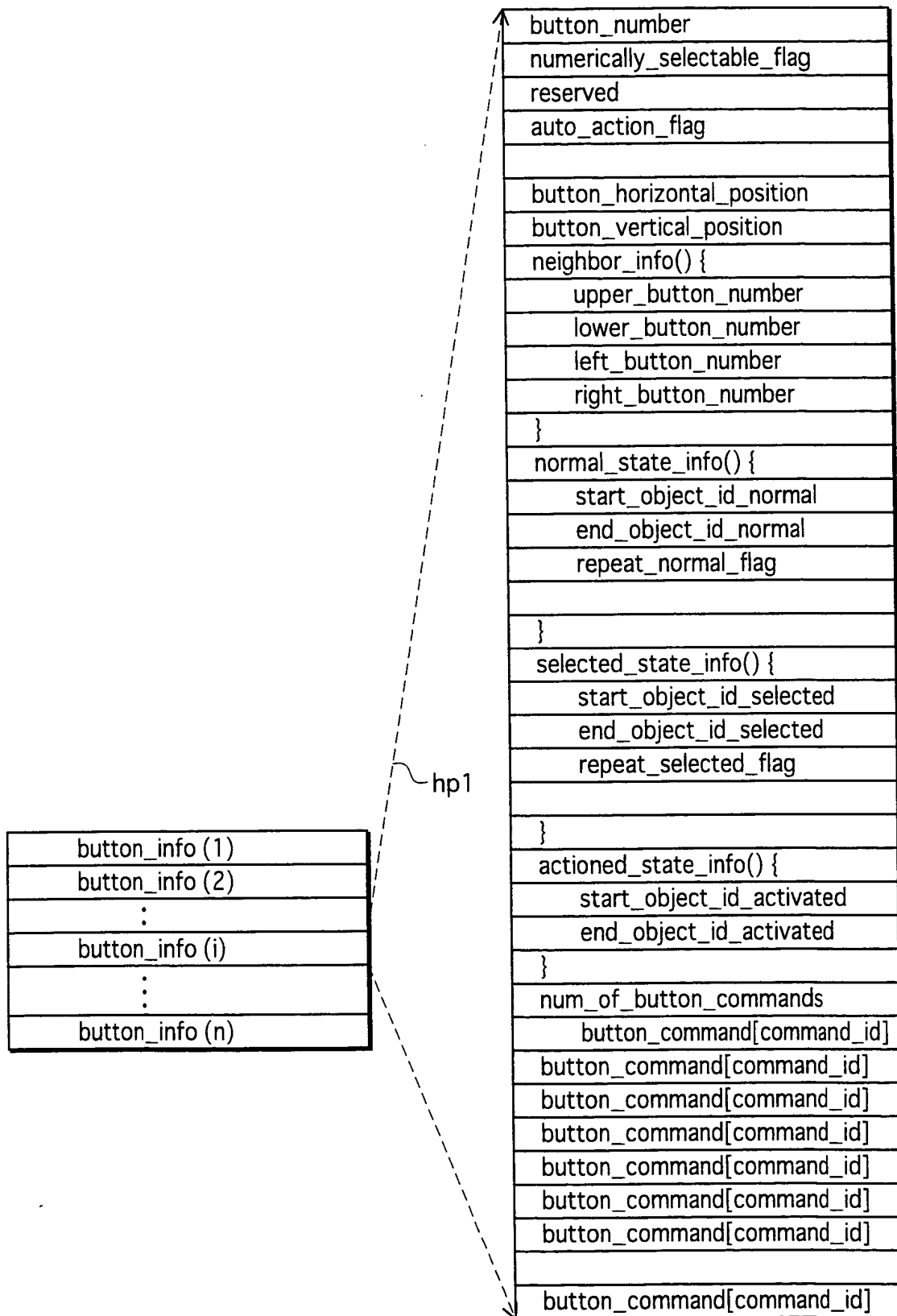


FIG.36

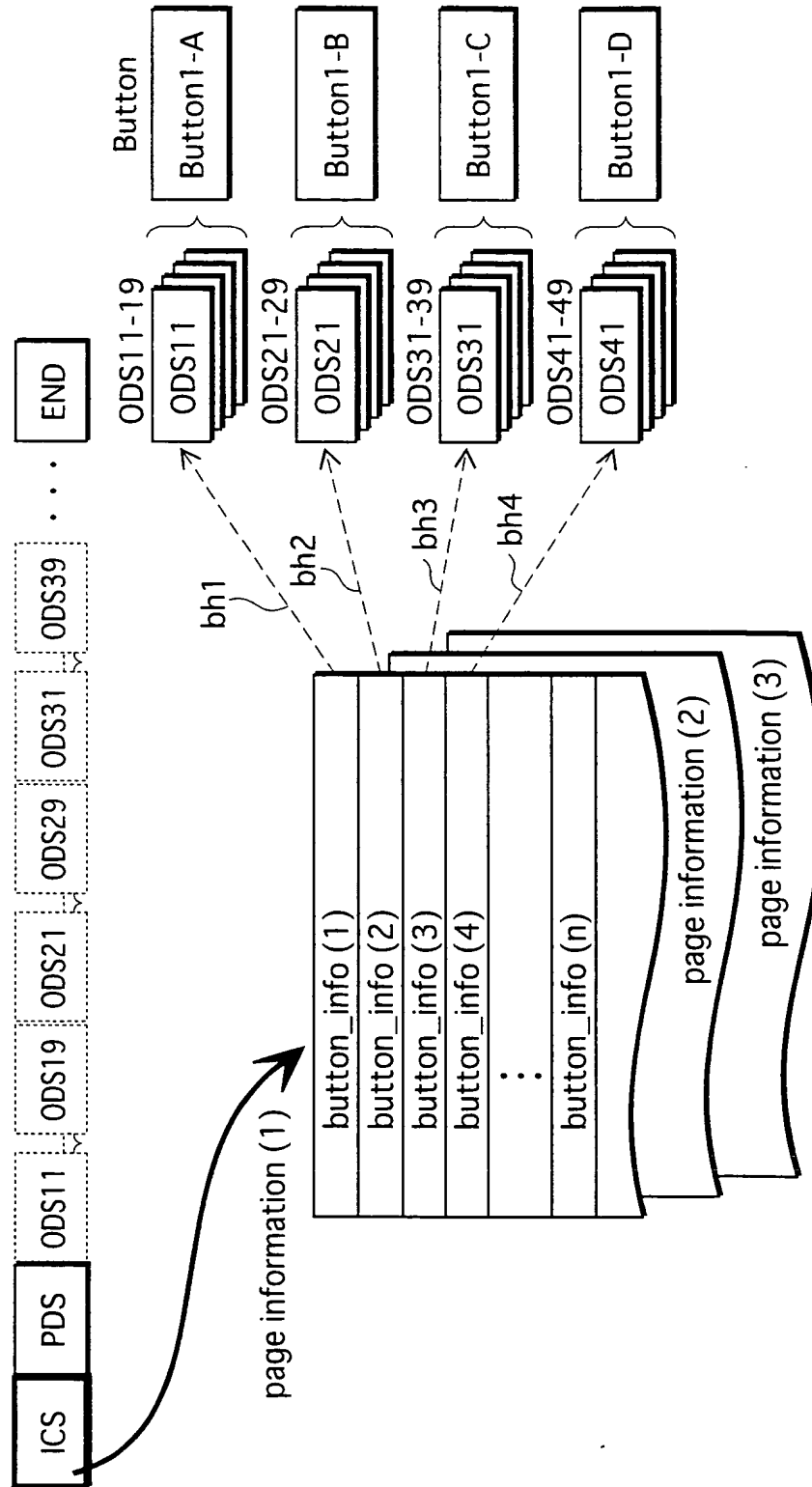
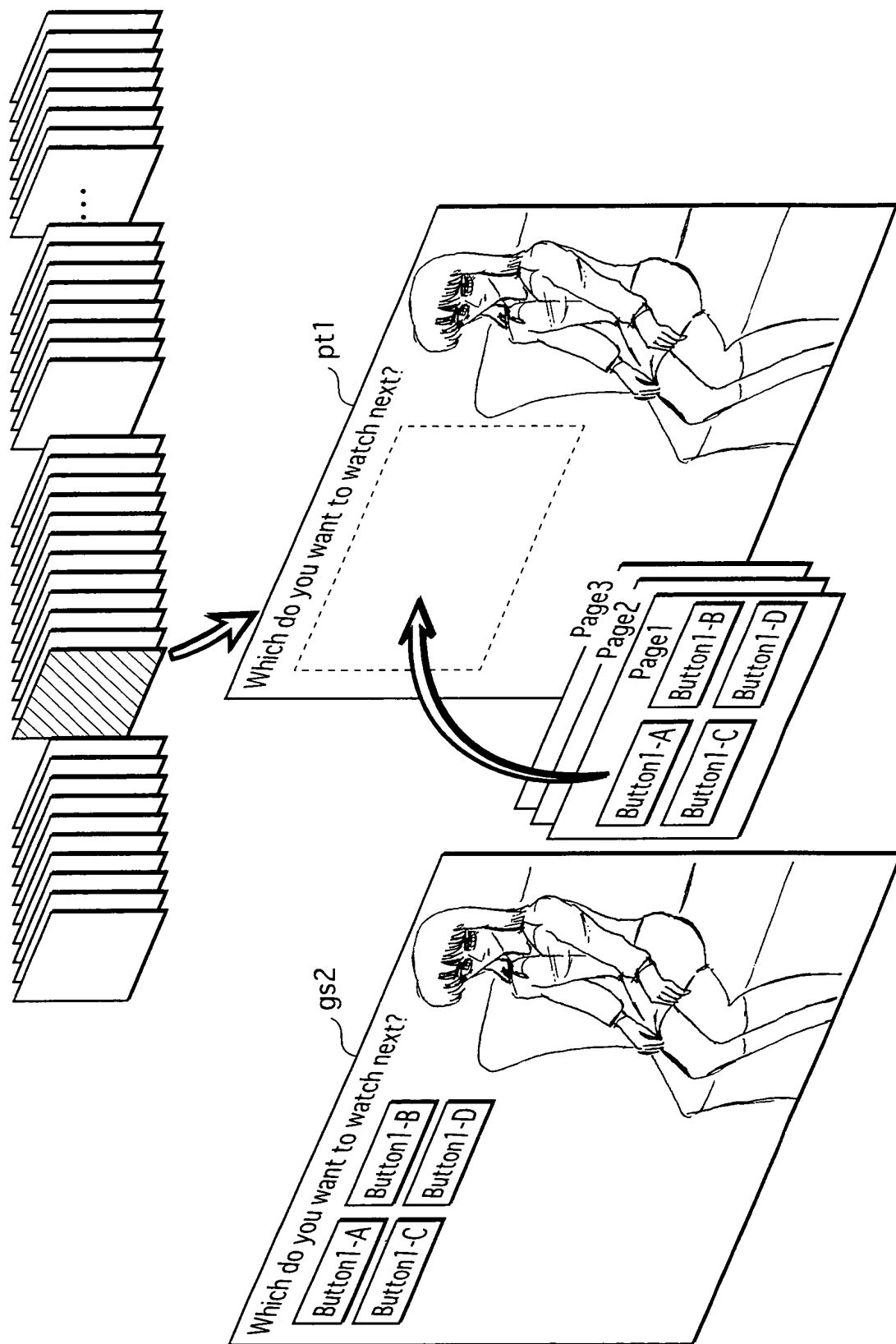


FIG.37



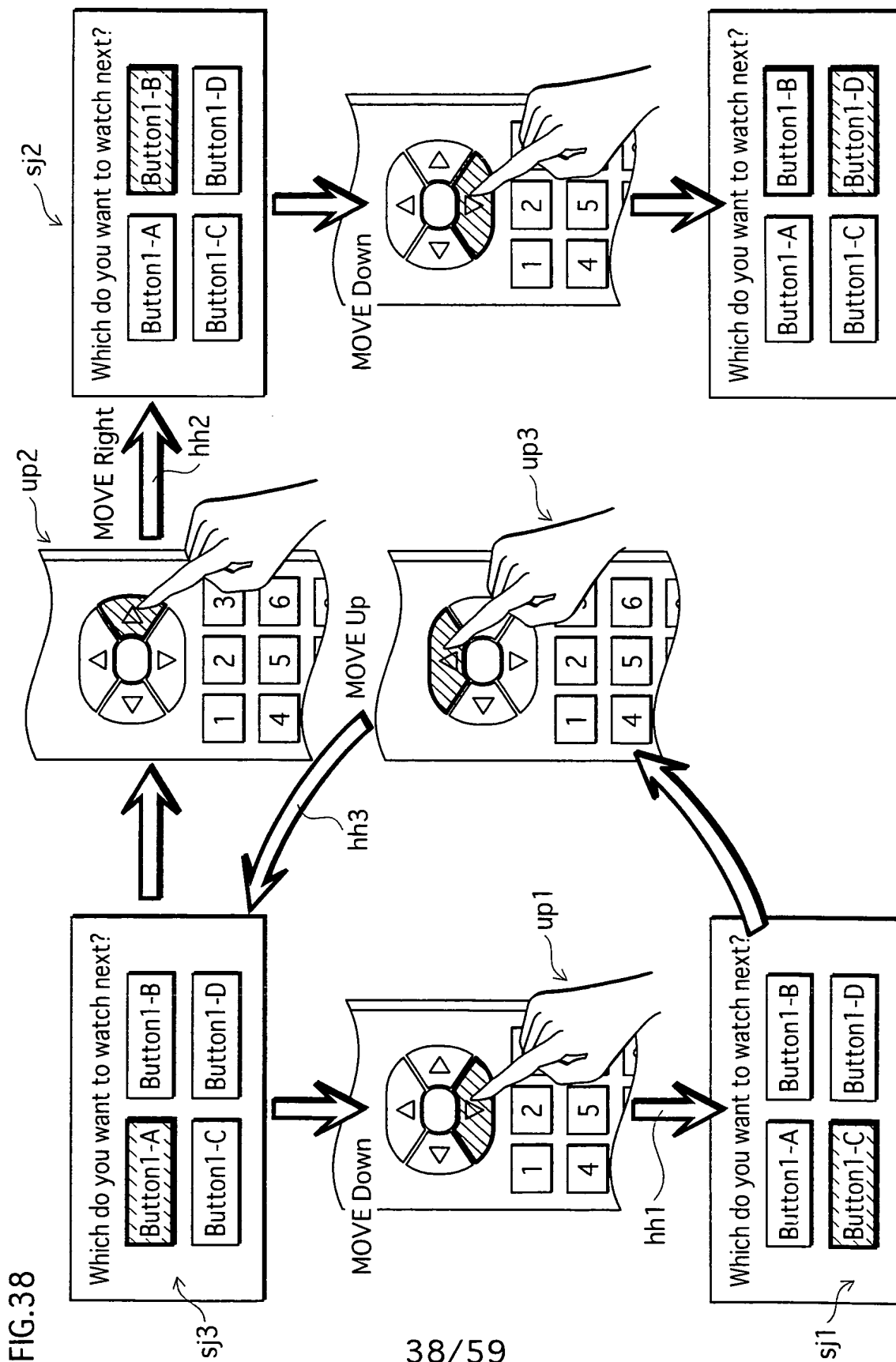


FIG.39

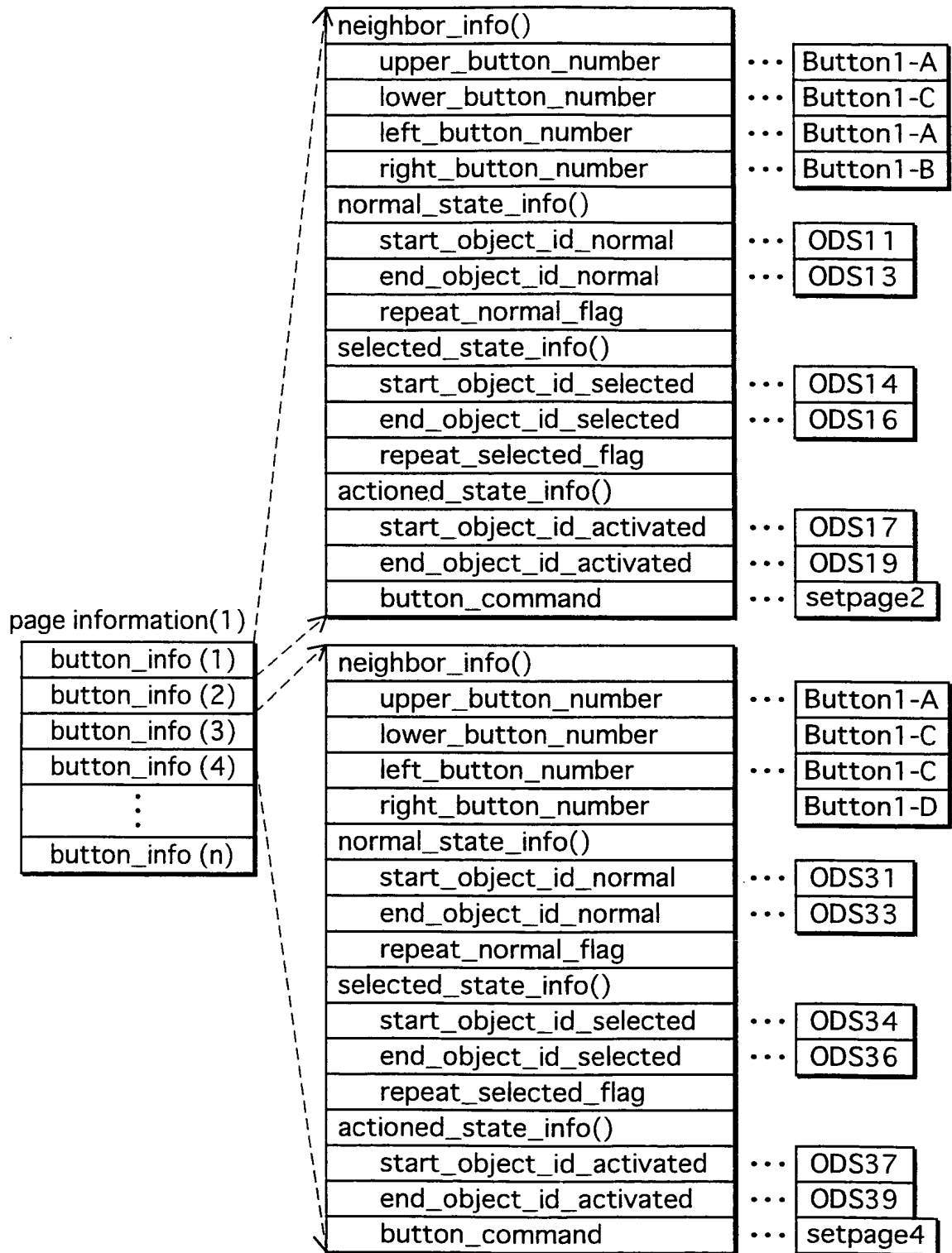


FIG. 40

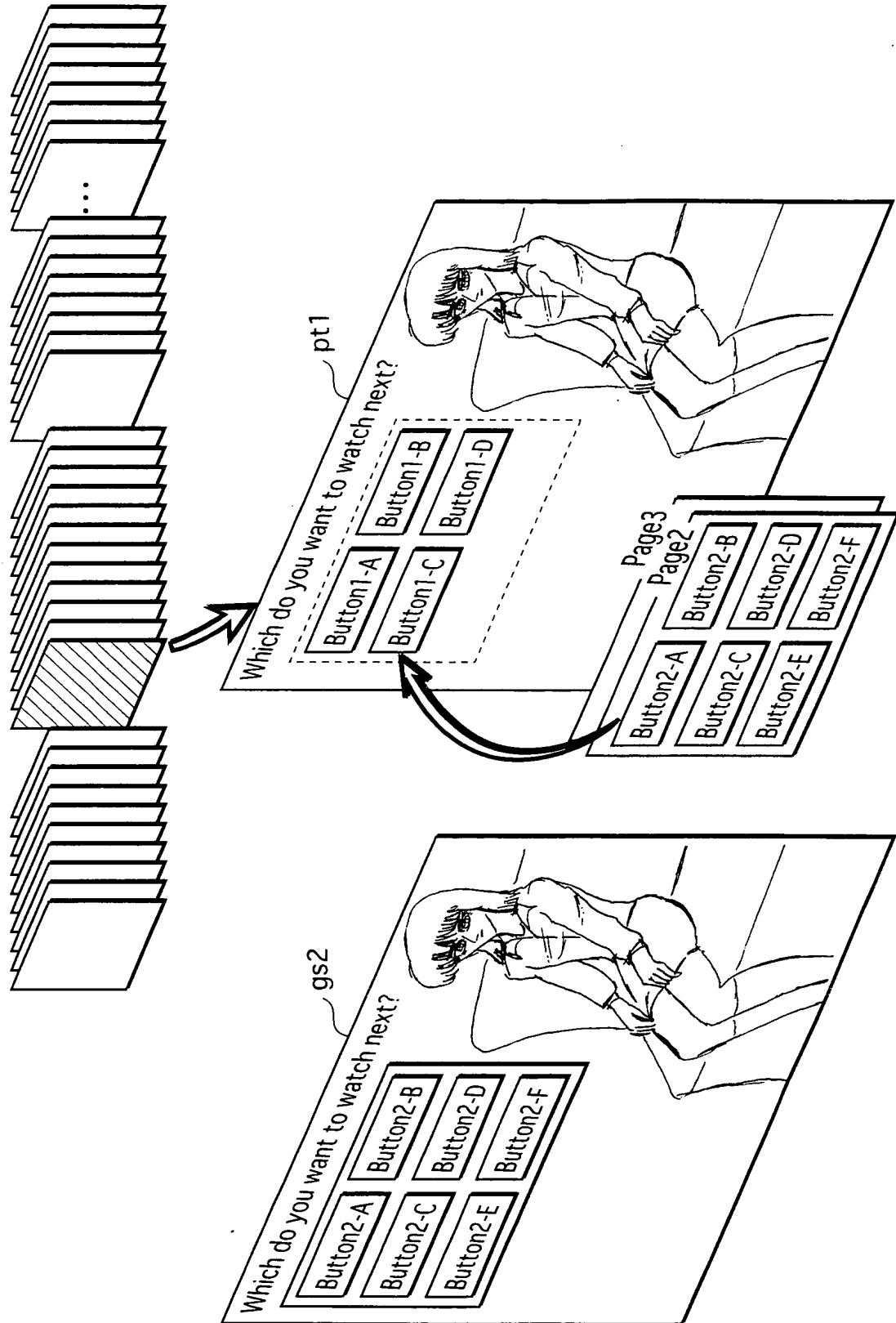


FIG.41

PSR 0	Interactive Graphics	1 to 32 : Interactive Graphics Stream number
PSR 1	Audio	
PSR 2	Presentation graphics and Text subtitle	
PSR 3	Angle	
PSR 4	Title	
PSR 5	Chapter	
PSR 6	PlayList	
PSR 7	PlayItem	
PSR 8	Presentation Time	
PSR 9	Timer	
PSR 10	Selected Button	
PSR 11	Menu Page	
PSR 12	Selected Style	
PSR 13	Parental	

0x0000 to 0x0FEF : Selected Button id
0xFFFF : Button id is invalid

0x00 to 0xFE : Page id

FIG.42A

Status and Transition for PSR0

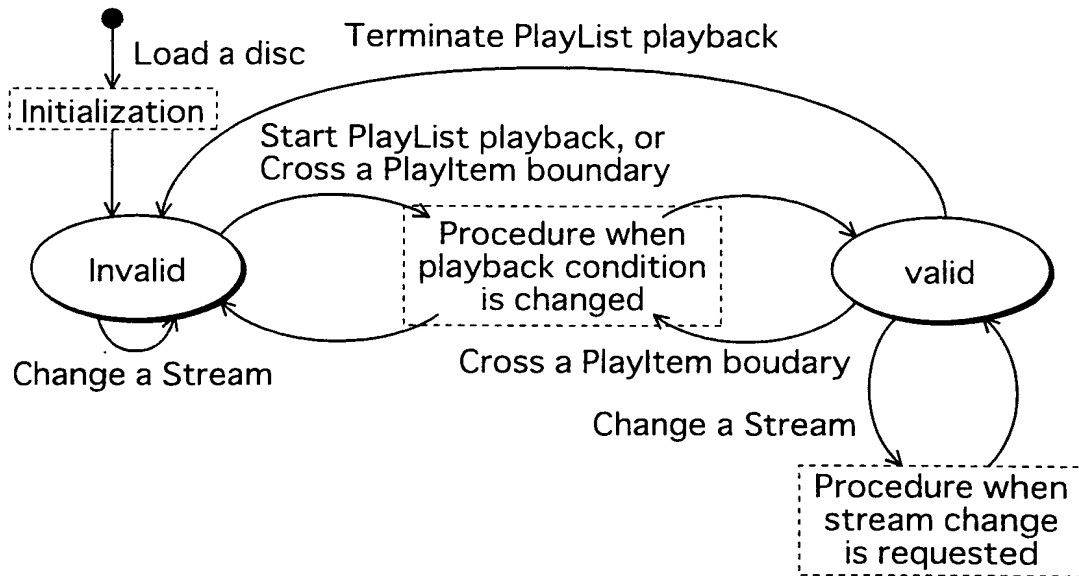


FIG.42B

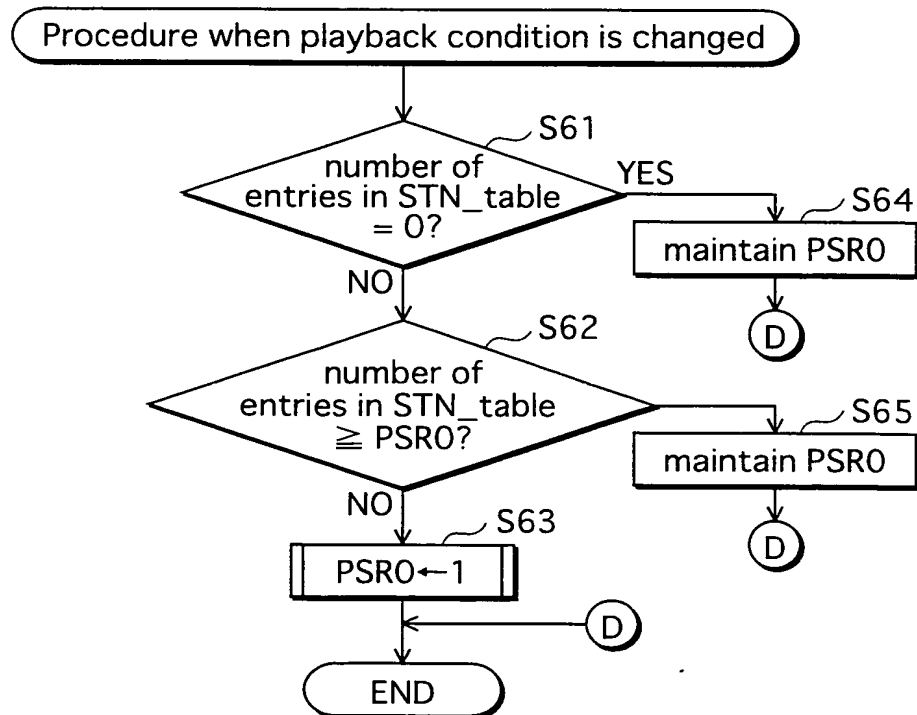
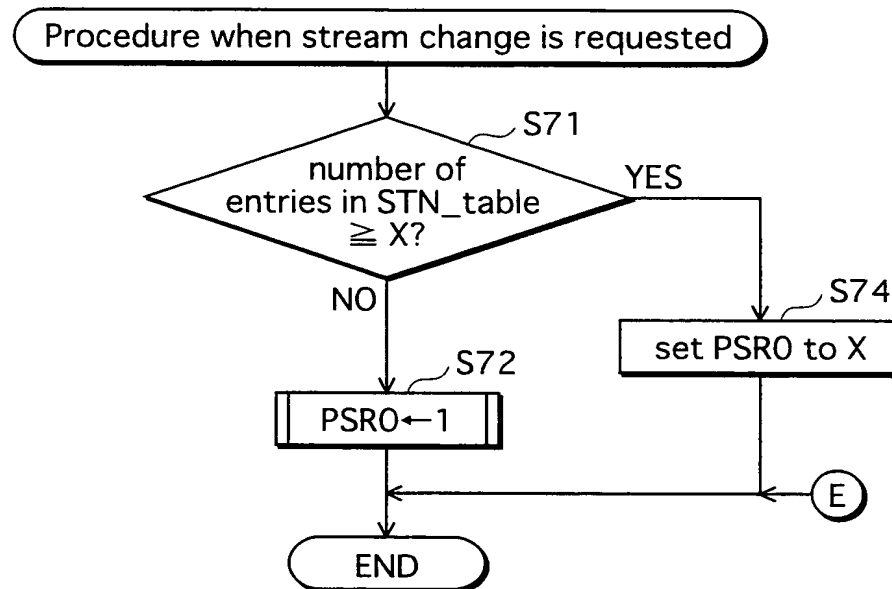


FIG.43



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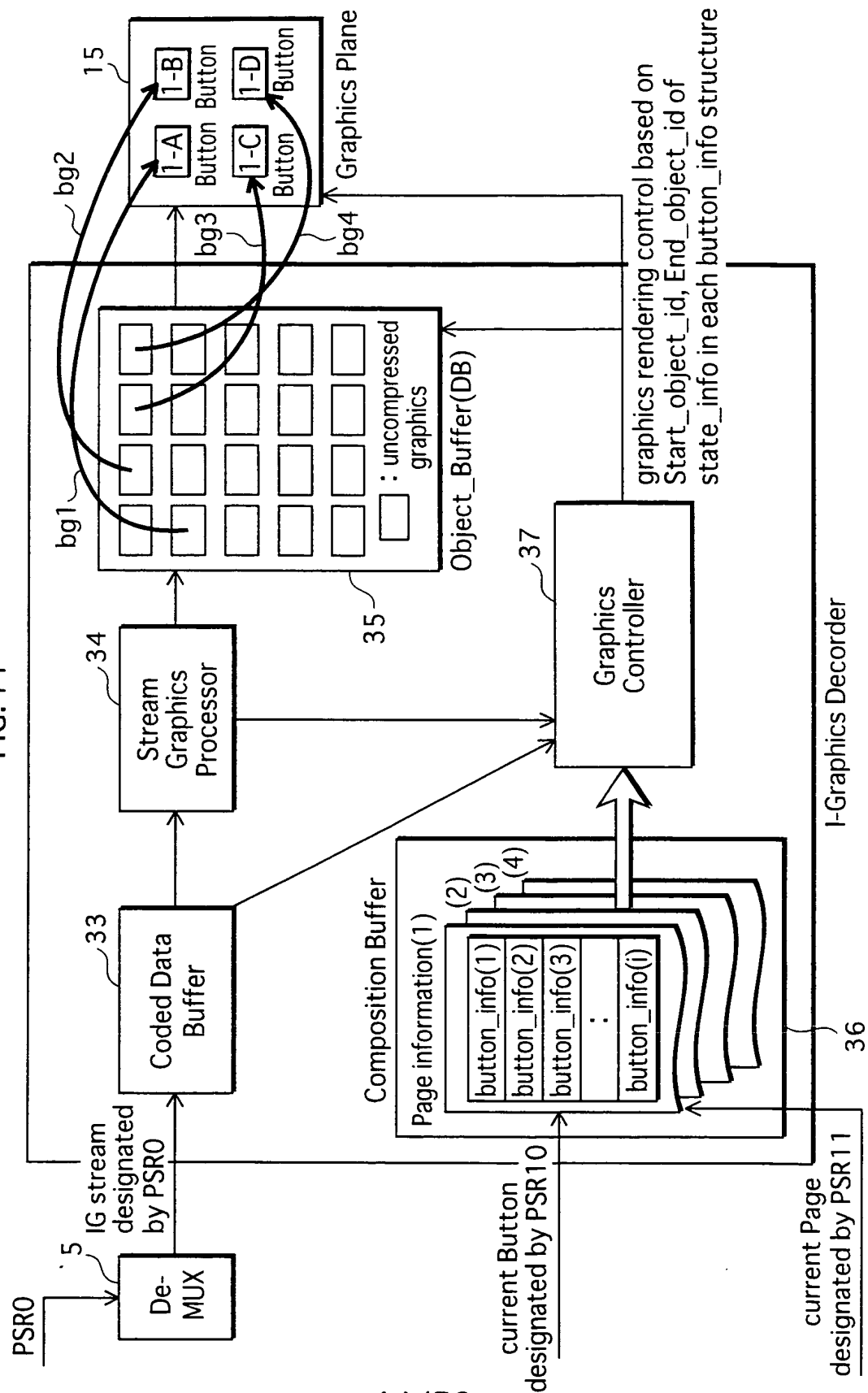


FIG.45

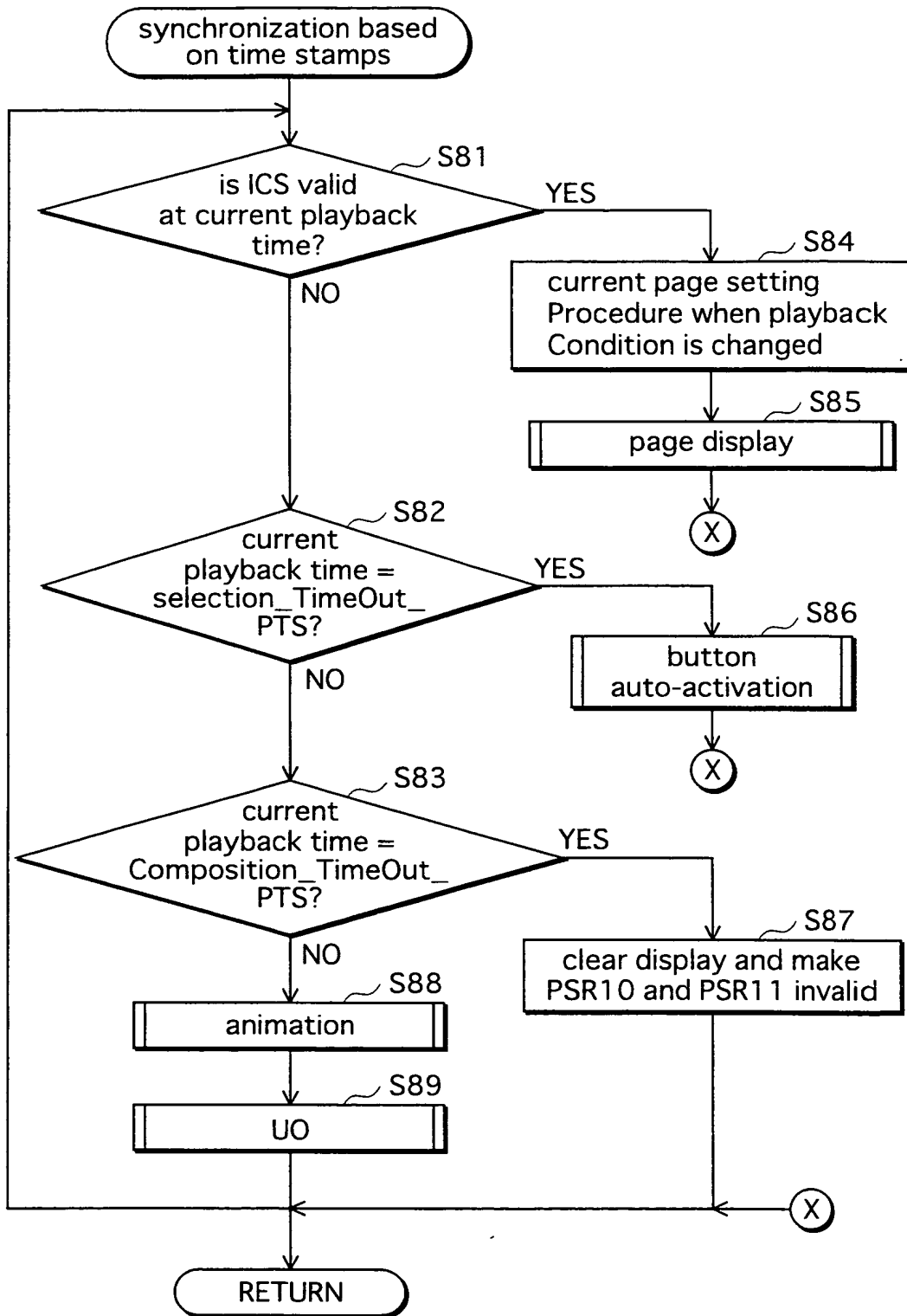


FIG.46

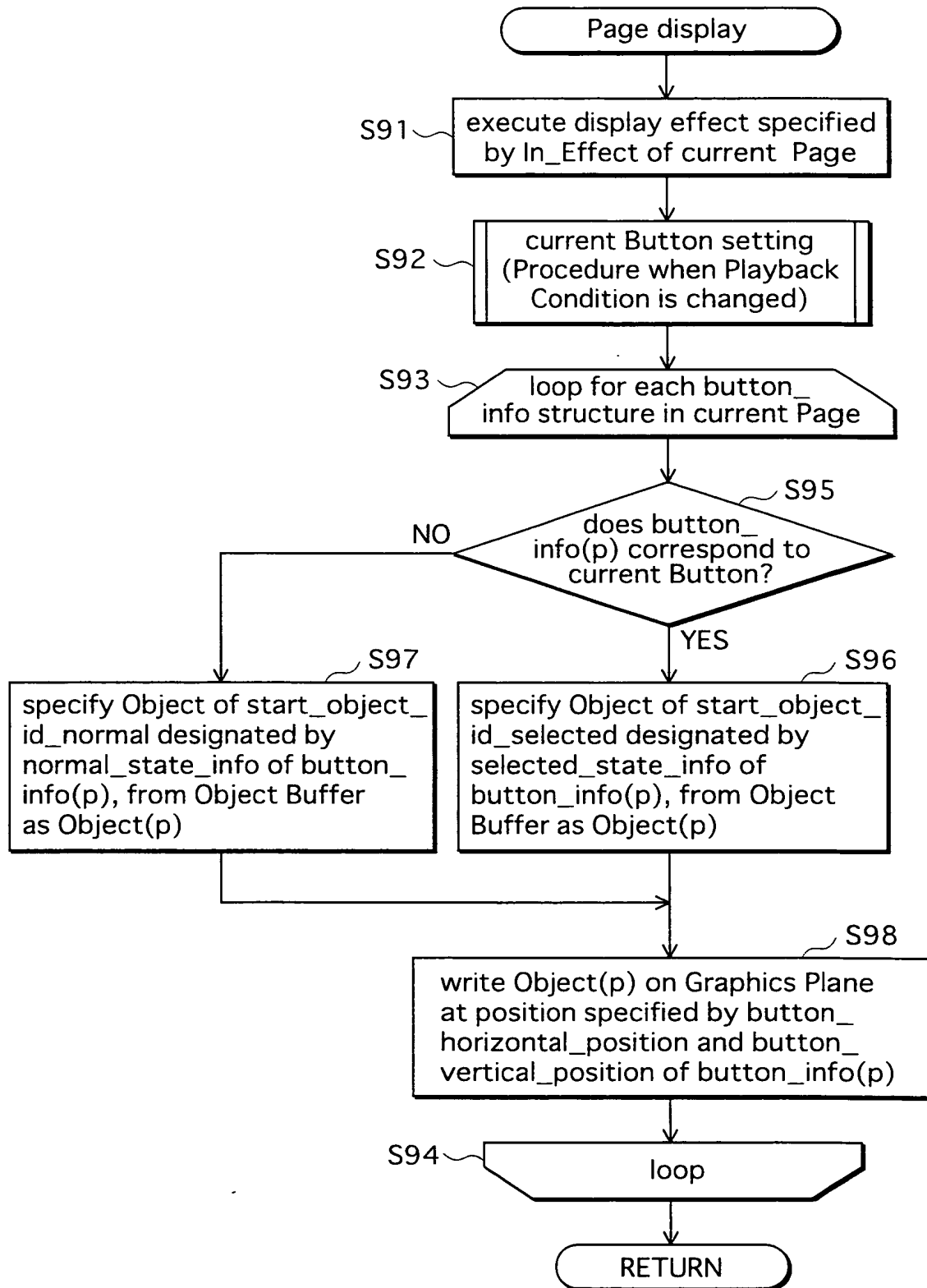


FIG.47

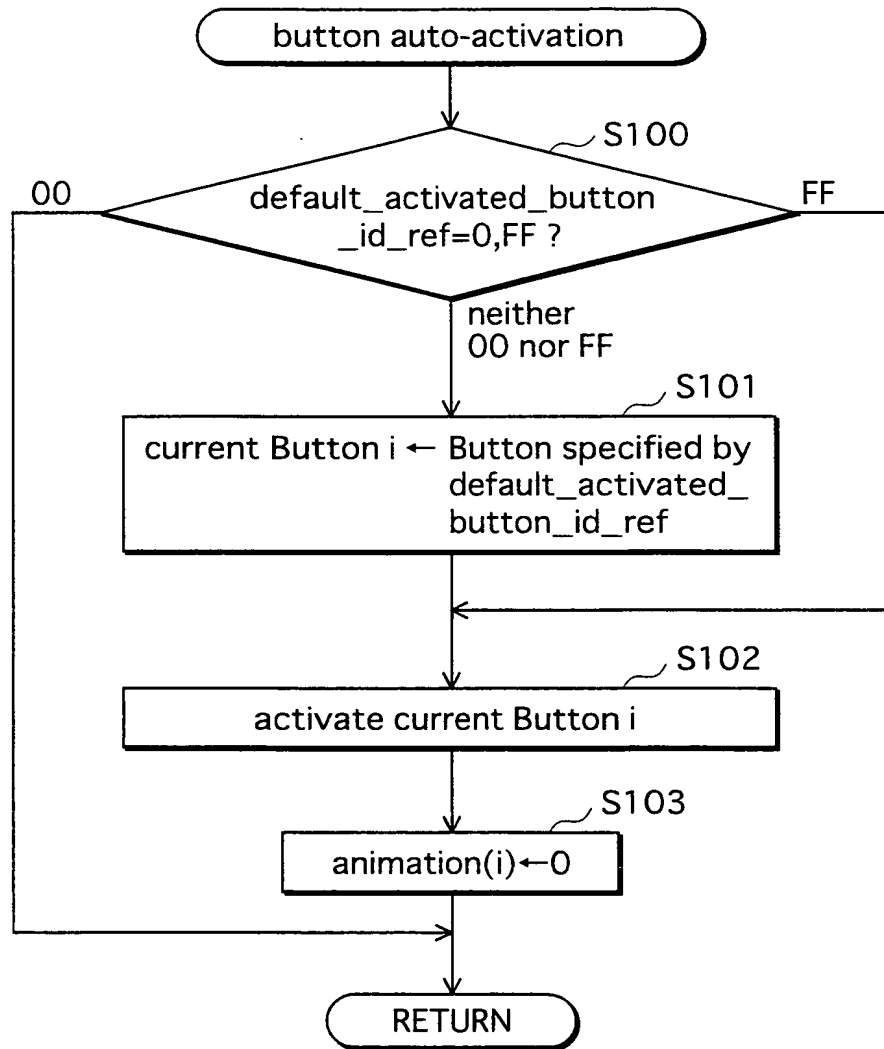


FIG.48

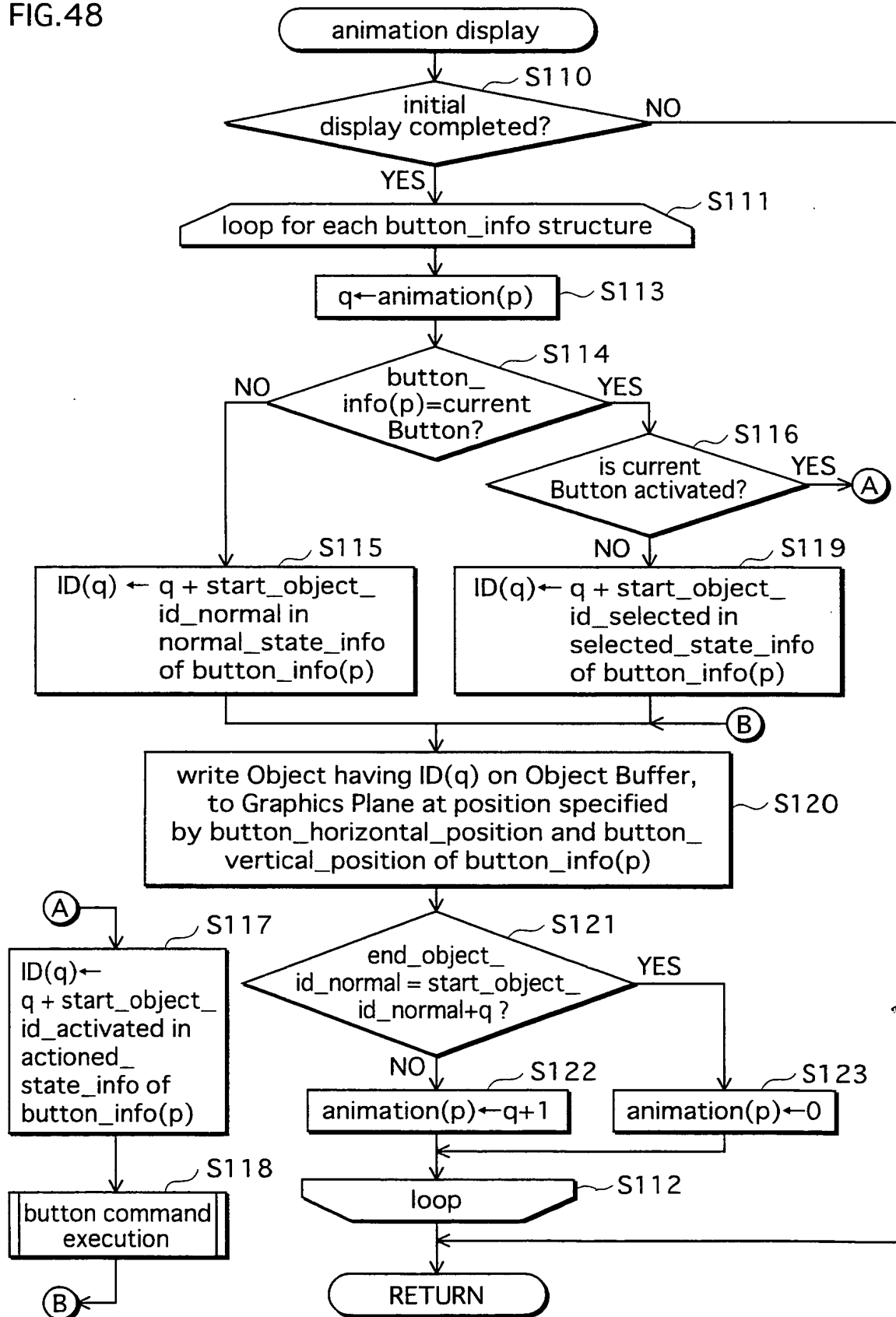


FIG.49

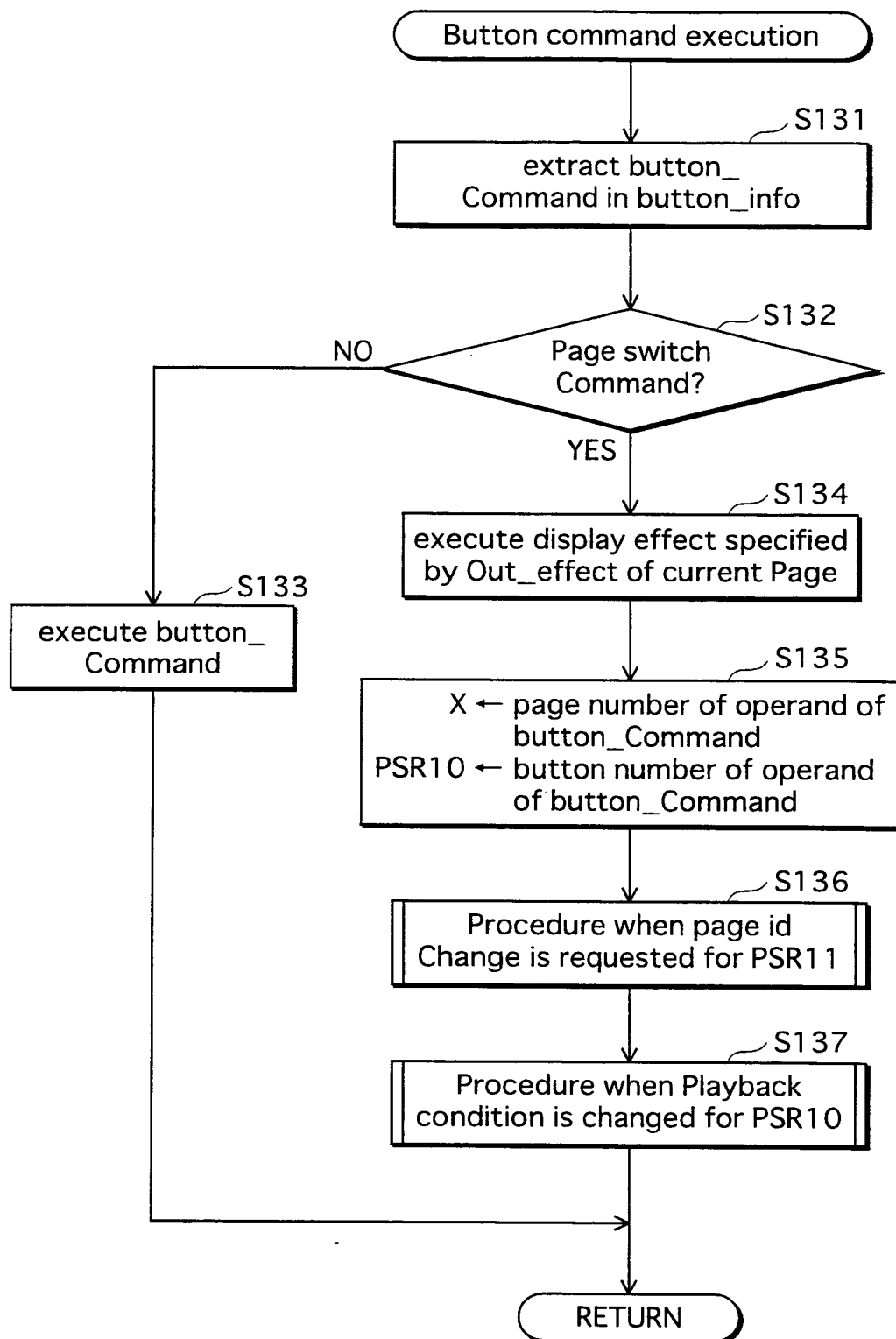


FIG. 50

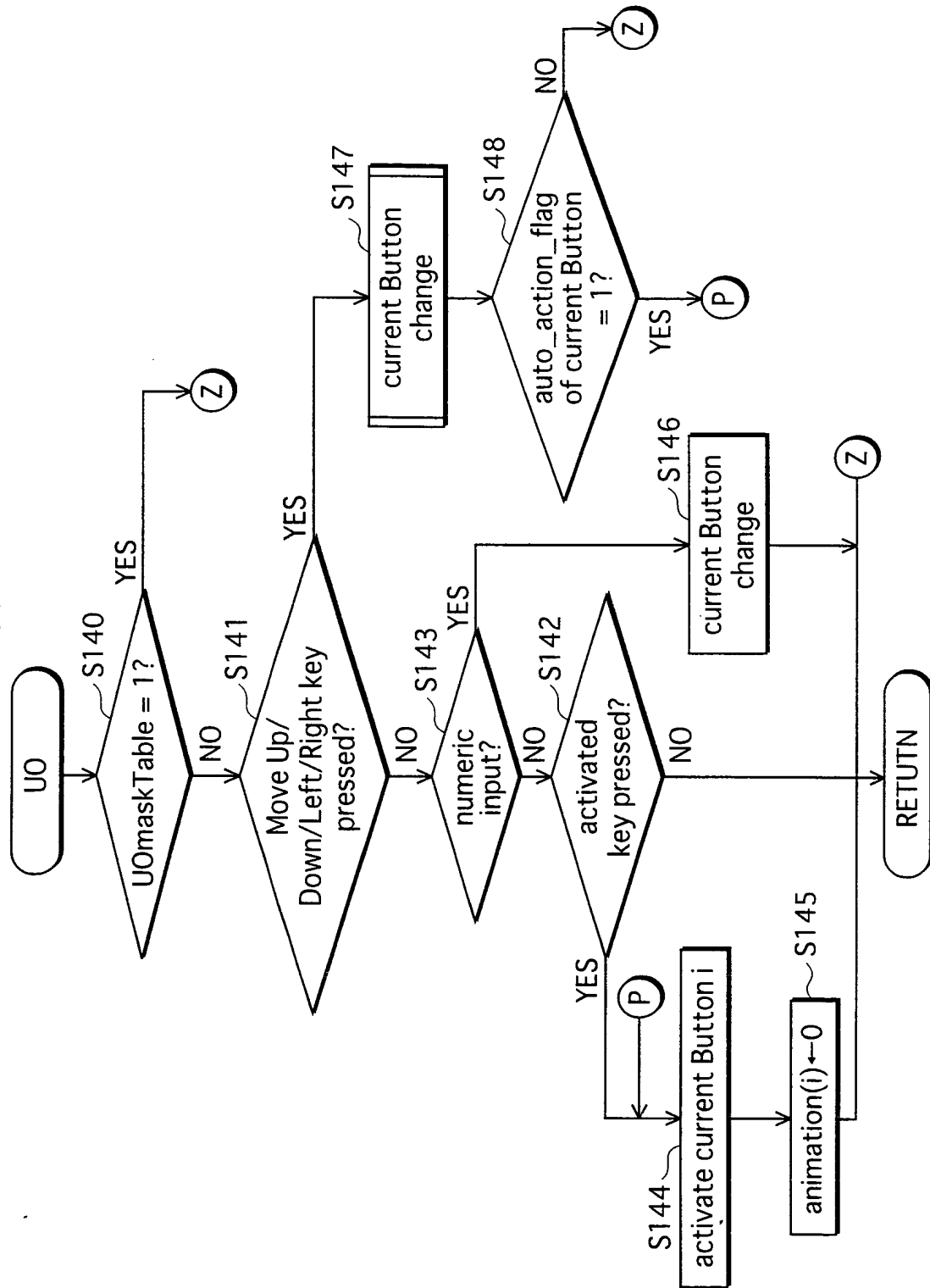
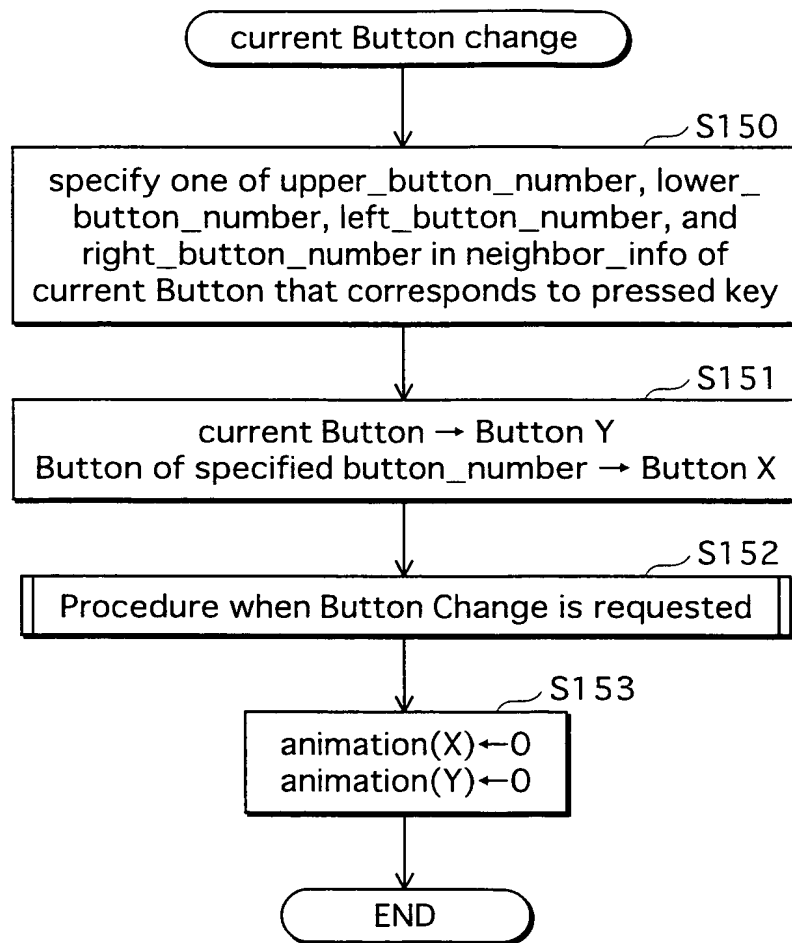


FIG.51



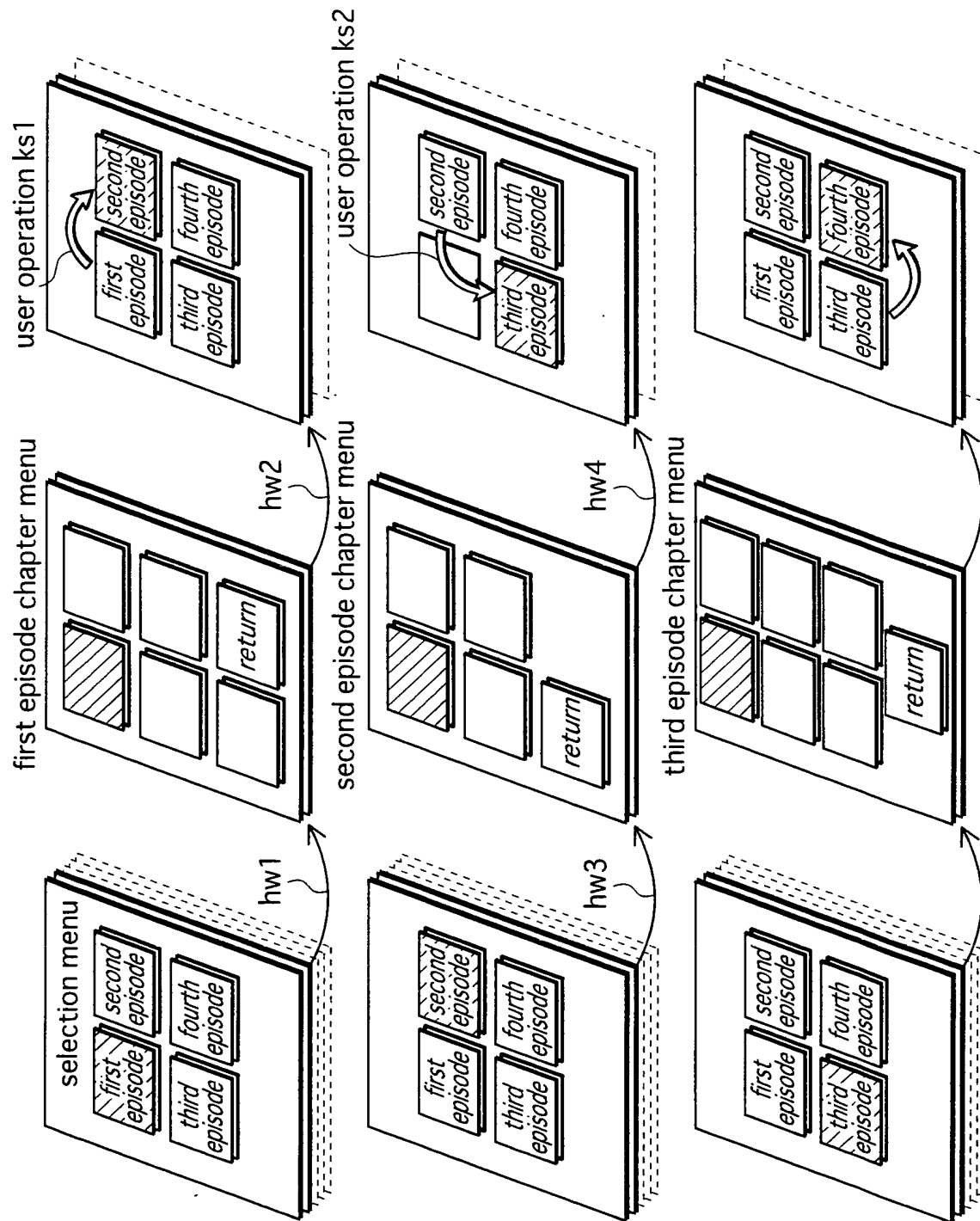


FIG.52

FIG. 53

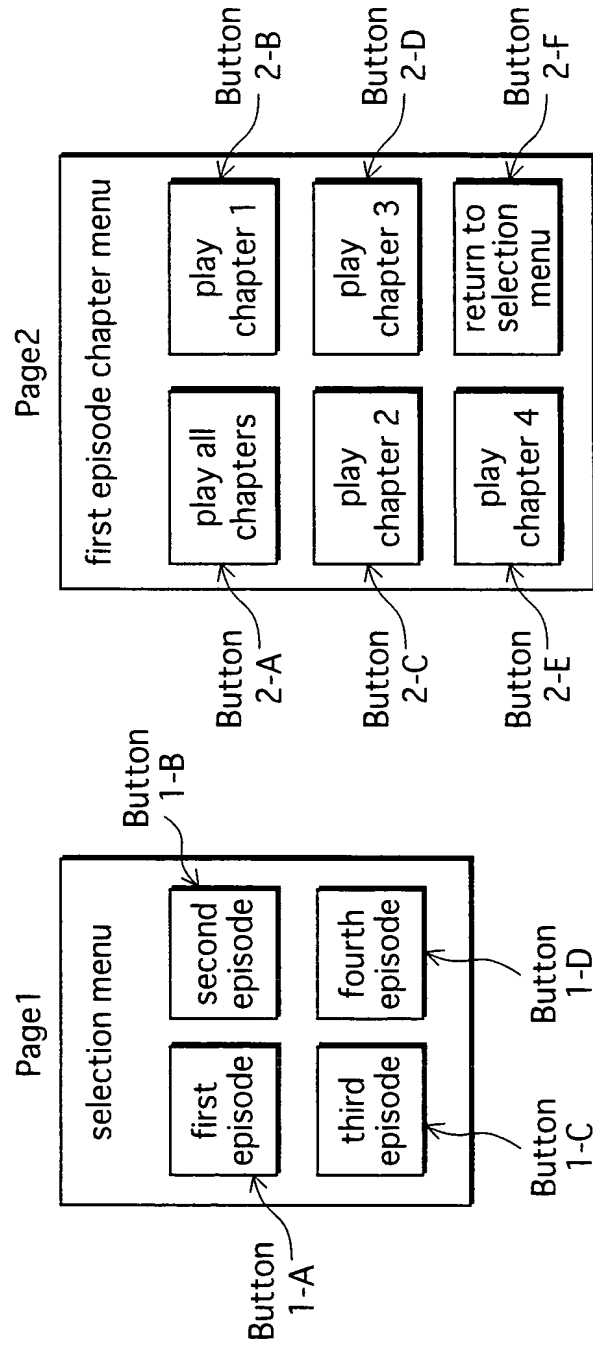
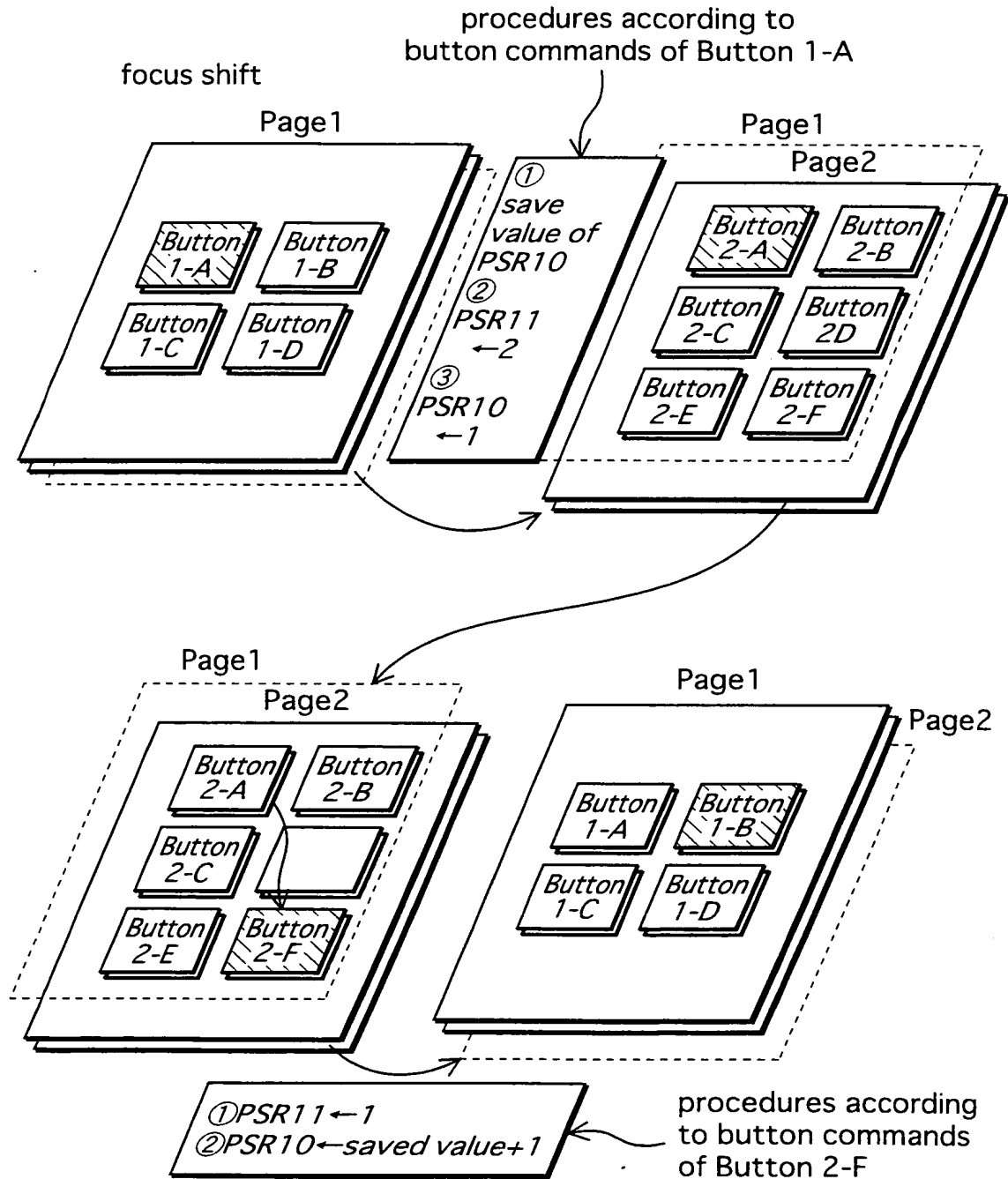


FIG.54



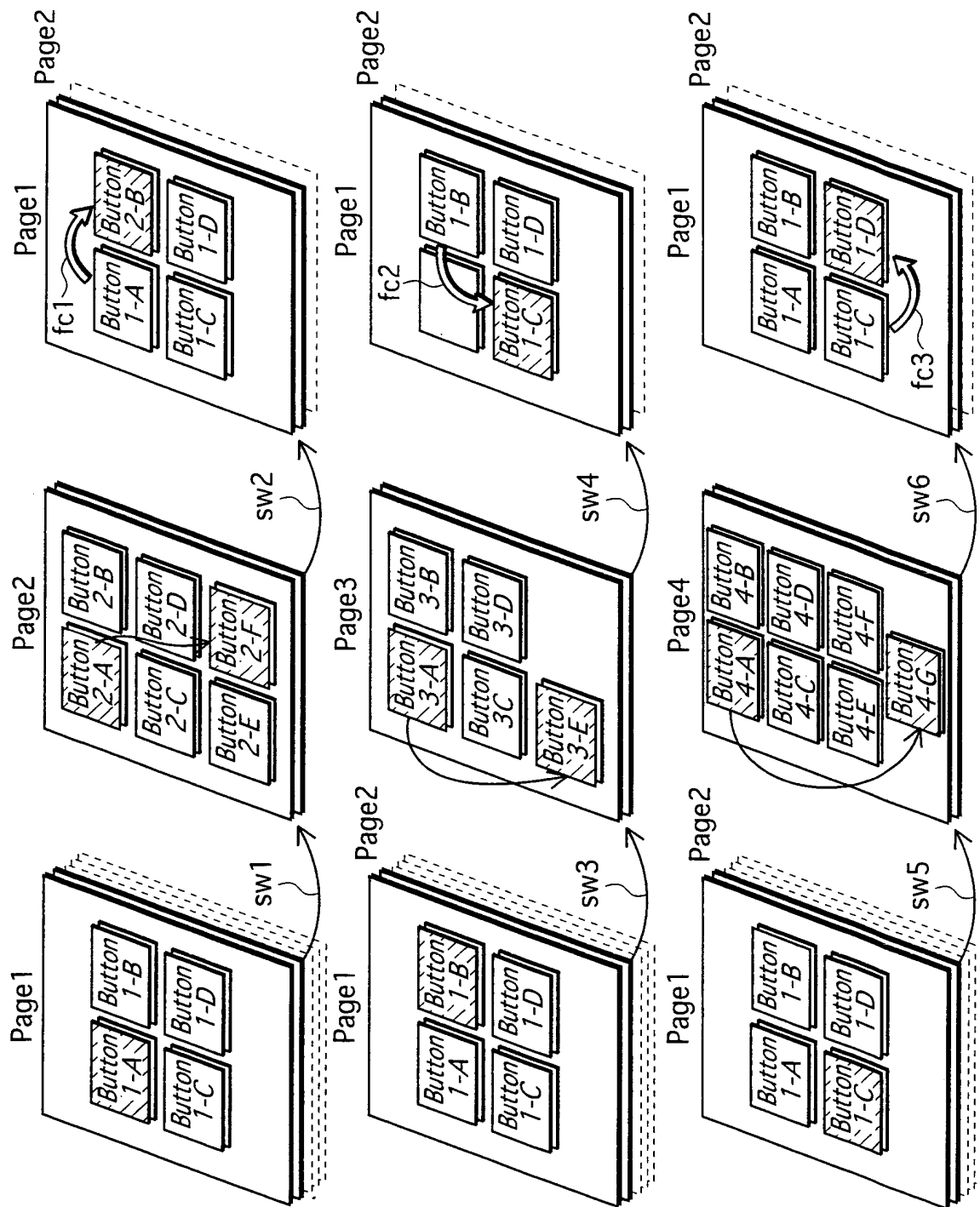


FIG. 55

FIG.56

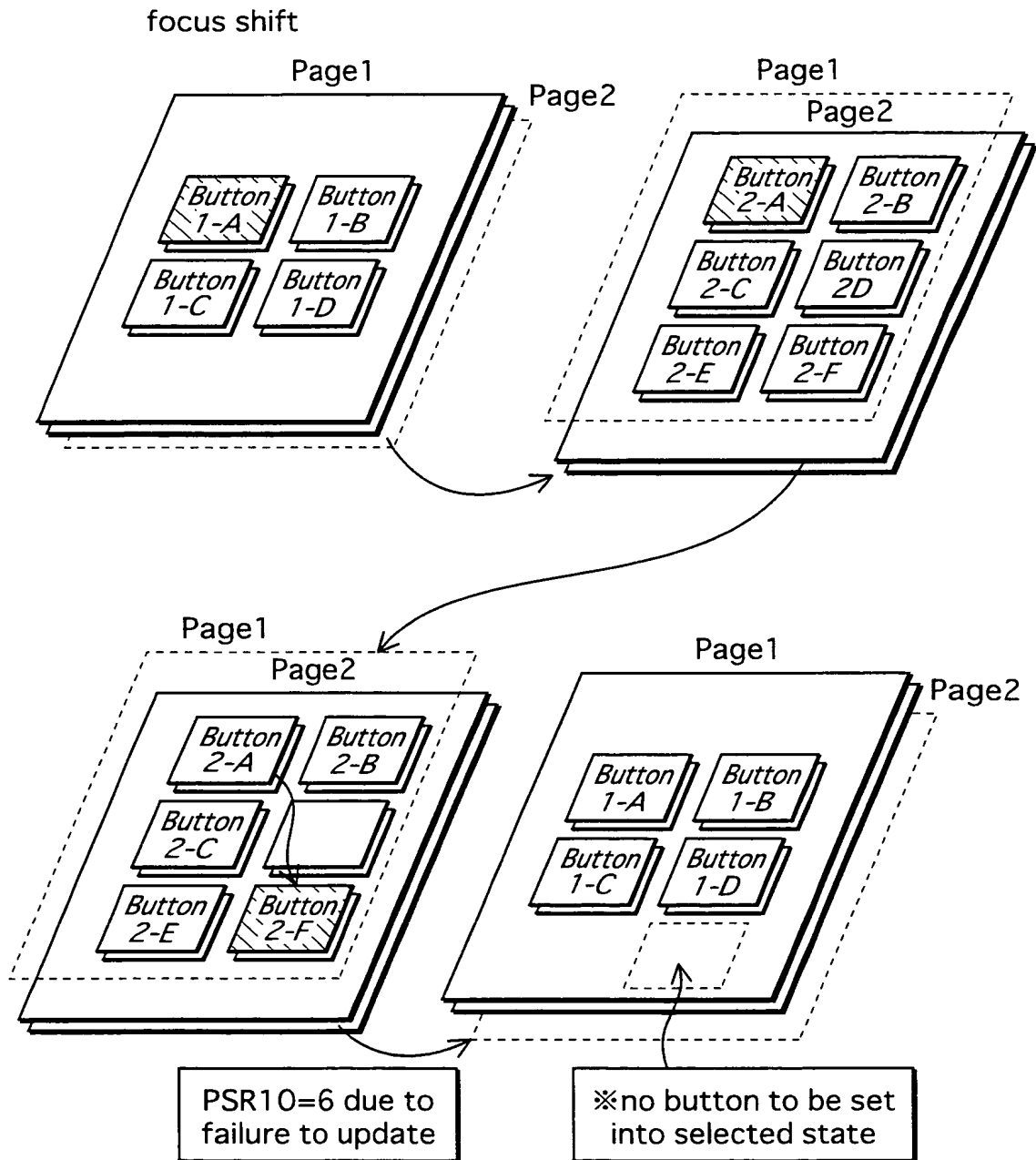


FIG.57A

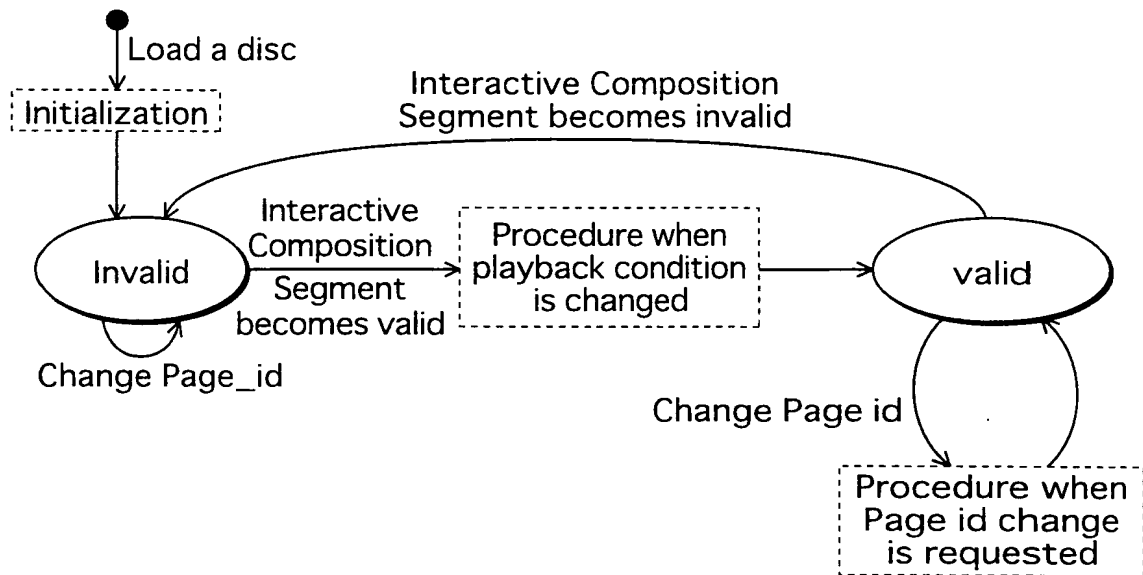


FIG.57B

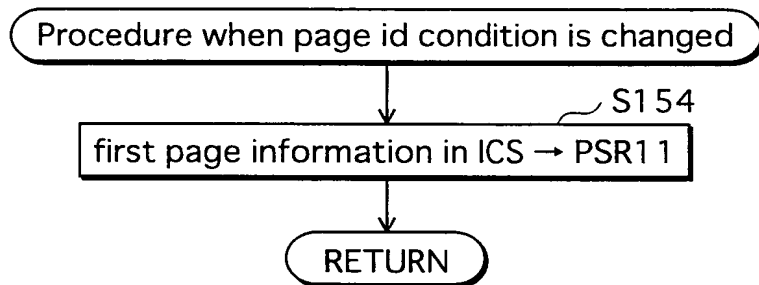


FIG.57C

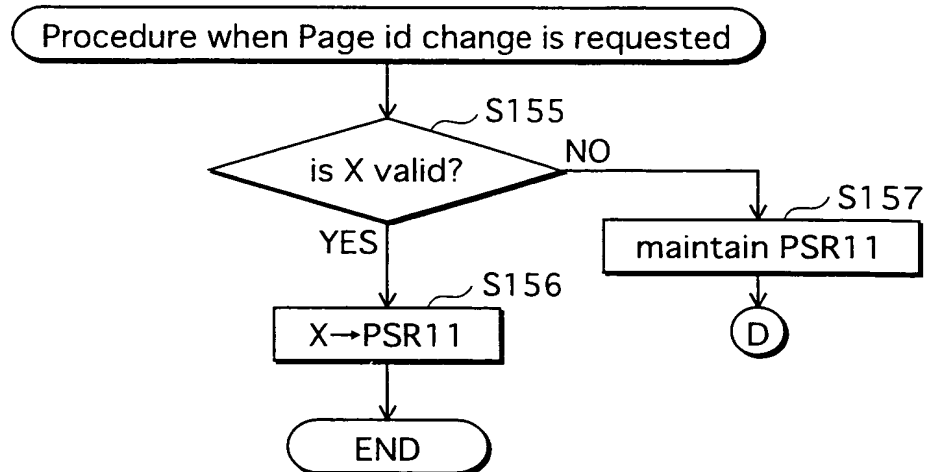


FIG.58A

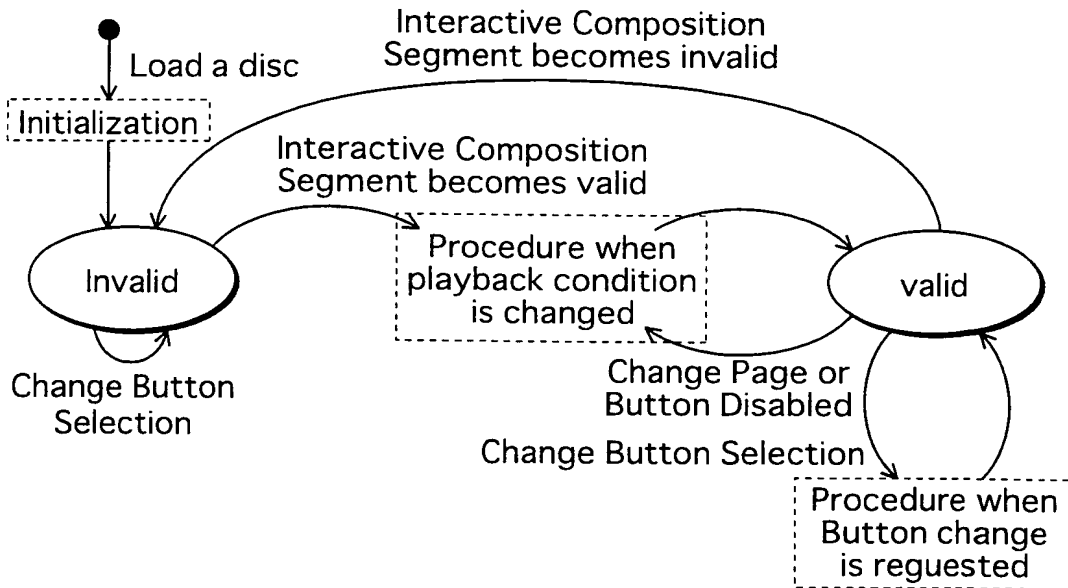


FIG.58B

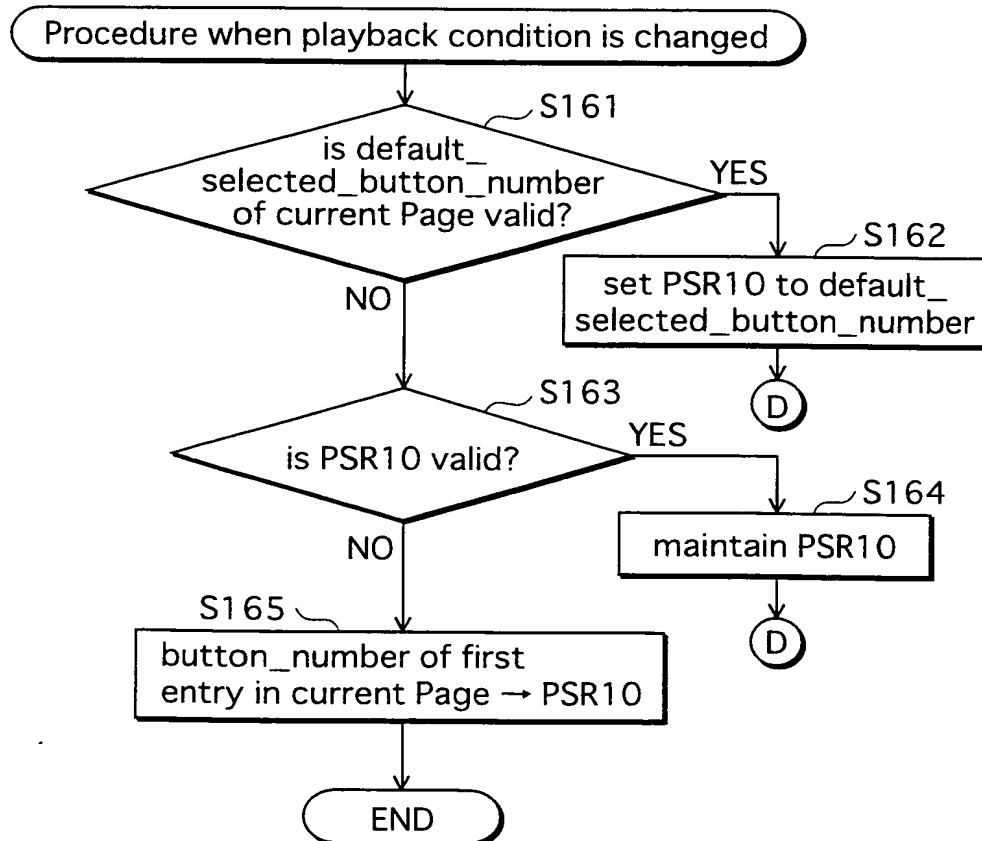


FIG.59

